THE ARAB REPUBLIC OF EGYPT

MINISTRY OF DEVELOPMENT, HOUSING AND LAND RECLAMATION GENERAL AUTHORITY FOR REHABILITATION PROJECTS AND AGRICULTURAL DEVELOPMENT

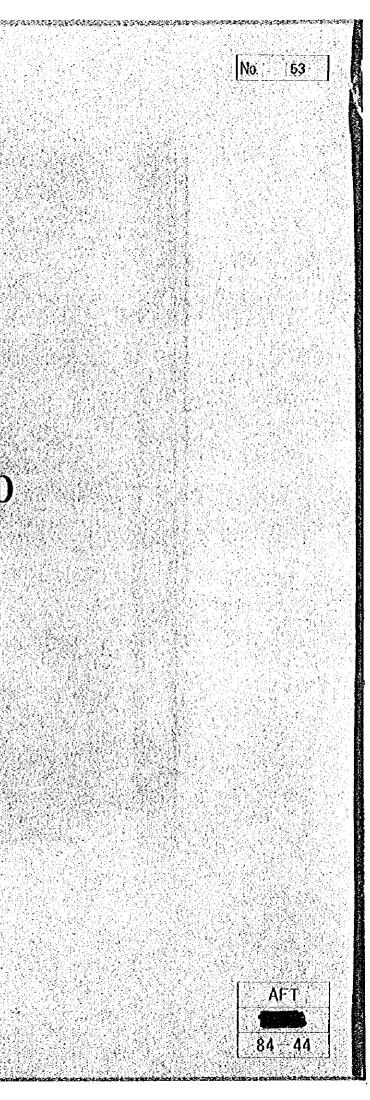
FEASIBILITY STUDY ON THE NORTH HUSSINIA VALLEY & SOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT VOLUME, V

DRAWING

JUNE 1984

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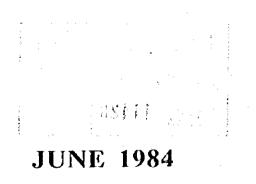
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MINISTRY OF DEVELOPMENT, HOUSING AND LAND RECLAMATION GENERAL AUTHORITY FOR REHABILITATION PROJECTS AND AGRICULTURAL DEVELOPMENT

FEASIBILITY STUDY ON THE NORTH HUSSINIA VALLEY & SOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT **VOLUME.** V

DRAWING



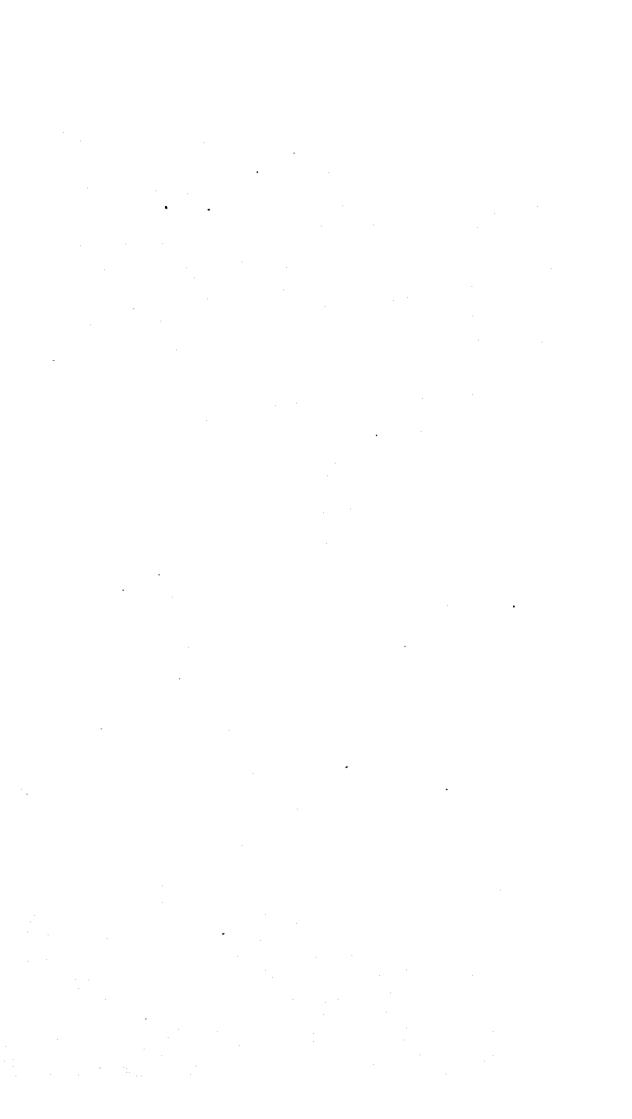
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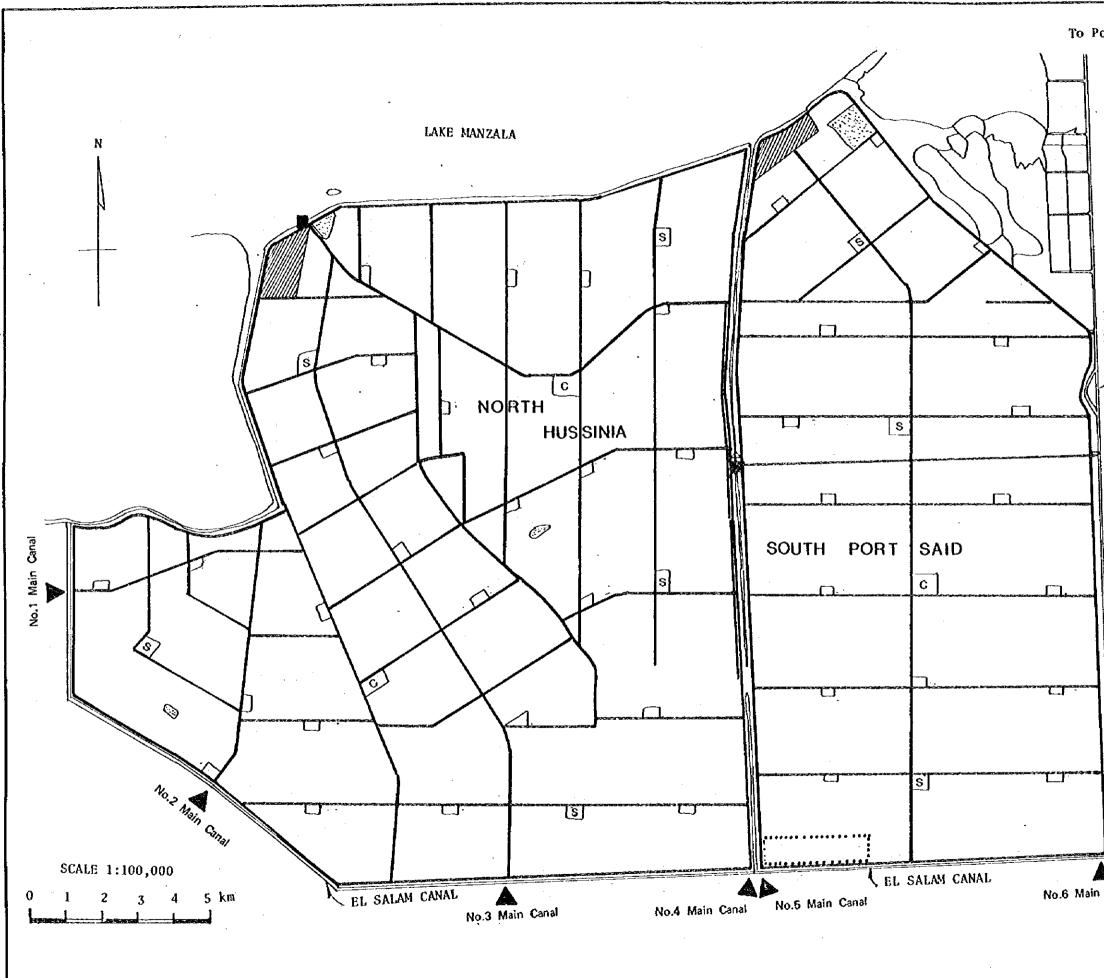
DRAWINGS

NORTH HUSSINIA AND SOUTH PORTSAID AGRICULTURAL DEVELOPMENT PROJECT

		:	33	SEWAGE TREATMENT	PLAN
1.	ROAD NETWORKS IN THE PROJECT AREA		34	PROFILE OF MAIN	IRRIGATION CANAL,
2.	LOCATION MAP OF STRUCTURAL FACILITIES		35	13	a
3.	CONSTRUCTION PHASE IN THE PROJECT AREA		36	u	17
4.	IRRIGATION AREA ARBORESCENCE	· · · · · · · · · · · · · · · · · · ·	37	11	11
5.	IRRIGATION CAPACITY ARBORESCENCE		38	91	11
6.	DRAINAGE AREA ARBORESCENCE			13	78
7.	DRAINAGE CAPACITY ARBORESCENCE		39	PROFILE OF MAIN	DDATNACE CANAL.
8.	TYPICAL SECTION OF IRRIGATION CANAL		40	"	R R
9.	TYPICAL SECTION OF DRAINAGE CANAL		41		£1
10.	INTAKE OF MAIN CANAL		42	11	
11.	PARSHALL FLUME OF MAIN CANAL		43	14	
12.	SPILL-WAY OF MAIN CANAL		44	0	u
			45	17	11
13.	CHECK GATE OF MAIN CANAL		46	ÞI	rt
14.	LOCATION OF PUMPING STATIONS				
15.	DIMENSION OF PUMPING STATIONS, SECTION VIEW	(1)			
16.	DIMENSION OF PUMPING STATIONS, PLAN VIEW	(2)			

- 17. DIMENSION OF PUMPING STATIONS, PLAN VIEW (3)
- 18. INTAKE OF SECONDARY CANAL
- 19. CHECK GATE OF SECONDARY CANAL
- 20. TURN-OUT OF TERTIARY CANAL
- 21. CHECK GATE OF TERTIARY CANAL
- 22. BRIDGE OF BAHR EL BAQAR
- 23. BRIDGE OF MAIN/DRAINAGE CANAL
- 24. PLAN OF FARM BLOCK
- 25. TYPICAL SECTION OF ON-FARM FACILITIES
- 26. LAYOUT OF PILOT FARM
- 27. LOCATION OF BUILDING OF CENTRAL VILLAGE
- 28. LOCATION OF BUILDING OF SERVICE VILLAGE
- 29. LOCATION OF BUILDINGS OF SATELITE VILLAGE
- 30. PLOT PLAN OF WATER TREATMENT STRUCTURE (1)
- 31. PLOT PLAN OF WATER TREATMENT PLAN (2)
- 32. PLOT PLAN OF WATER TREATMENT SECTION VIEW (3)

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M-1, M-2
M-3
M-4
M-4-1, M-4-2
M-5
M-6
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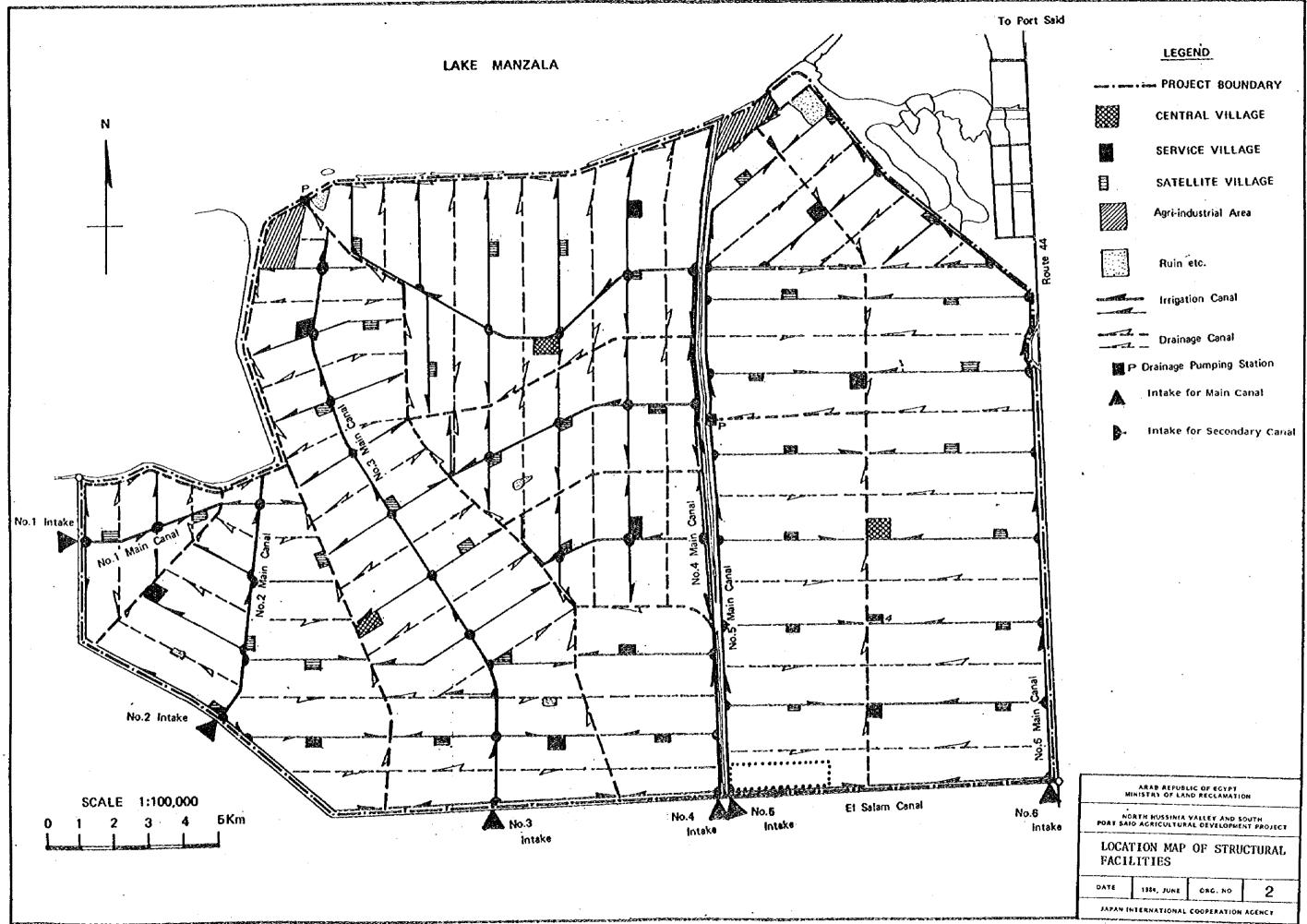
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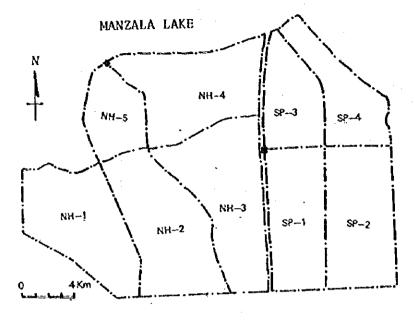
To Port Said

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LEGEND

		Ruin
		Industrial area
	C	Central village
	<u></u> §]	Service village
	<u> </u>	Satellite village
ROUTE 44	Τ	Trunk road
LUON -	63	Connection road
		Pumping station
	Δ	Bridge on Bashtir drain
44		
ROUTE		
1		
	[ARAB REFUBLIC OF EGYPT MINISTRY OF LAND RECLAMATION
	P0	NORTH HUSSINIA VALLEY AND SOUTH RT SAID AGRICULTURAL DEVELOPMENT PROJECT
Canal		ROAD NETWORKS IN THE PROJECT AREA
	0.4	ITE 1984, JUNE DHC. NO 1
		APAN INTERNATIONAL COOPERATION AGENCY





LOCATION MAP

CANAL	LENGTH	AND	STRUCTURE 'S	NUMBER	IN	PROJECT

unterentin film that an		[SOUTH P	PORT SAID))	1		RTH HUSS	INIA		
DECREPTION	เหยา	SP-1.	SP-2.	SP-3.	SP-4.	NH-1.	144-2.	HH-3.	NH-4	NH-5.	TOTAL
HAIN CANAL .	p.	8,800	11,200	7,550	12,200	9,000	12,400	26,300	13,900	4,800	106,150
SECONDARY CANAL	a,	22,100	26,730	21,050	21,270	39,500	37,850	43,120	36,870	16,200	264,690
CANAL ALONG HOUSING AREA	Ν.	2,700	6,500	5,400	3,600	6,500	6,300	6,500	7,200	2,900	47,600
HAIN DRAINAGE CANAL	B.	15,700		9,600		12,300	19,500	31,300	21,000	I.	109,400
SECONDARY DRAINAGE CANAL	R.	18,650	26,420	15,950	16,650	30,600	37,300	32,450	29.200	11,200	218,420
GRAVEL PAVING OF ROAD	sqm.	33,400	38,050	29,350	29,000	58,200	47,900	75,350	73,150	28.050	412,450
CONNECTION ROAD	line		2.		I.		·	[3.
INPROVEMENT OF DIRE	5 1.	8 21,000		•	A 9,900	B 49,100			ŀ.		80,000
INTAKE OF HAIN CANAL	ps.	1.	1			2.	l.	\$.			6.
PARSHALL FLURE IN MAIN CANAL		I.	ι.			2.	1.	1.			6.
SPILLWAY IN MAIN CANAL	ps.			1.	1.	2.		4.	1.	1.	10.
CHECK IN HAIN CANAL	ps.	1.	1.				1.	1.	 		4.
INTAKE IN SECONDARY CANAL	ps.			5.	6.	13.		21.		6. /	86.
CHECK IN SECONDARY CANAL	P5.	5.	5.	4.	3.	6.	8.	· · · · · · · · · · · · · · · · · · ·	6.		40.
OUT FALL OF SECONDARY CANAL	ps.			5.	6.	13.	13.			6.	83.
BRIDGE OF HAIN CANAL	 ۳۶.	5.	5.	4.	6.	4.	5.	10.	5.		47.
RIDGE IN DRAINAGE MAIN CANAL	ps.	4.						6.	6.	4.	41.
	ps.		'								
BRIDGE OH BAQAR DRAIN	ps.	t.									I .
DRAINAGE PUNPING STATION	Sta.	1.	·			1					2.
LAND CONSOLIDATION	Fed.	8,981	10,653	5,905	6,441	11,509	12,369	13,672	11,554	4,716	85,800

CONSTRUCTION PHAS	SING OF	PROJECT	AREA
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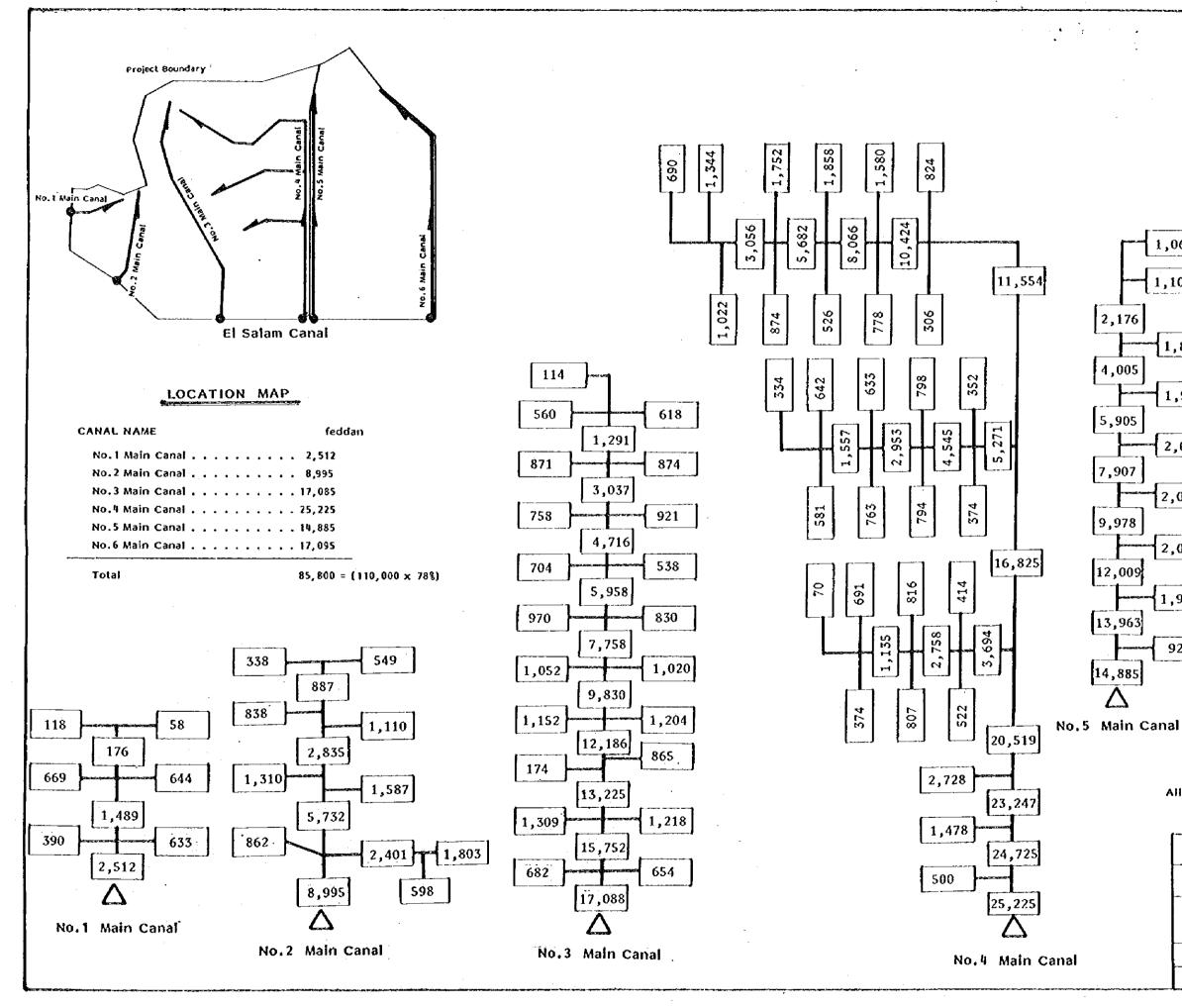
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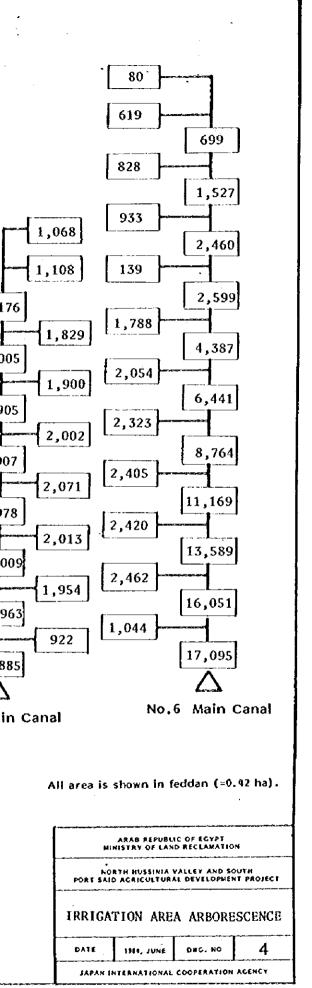
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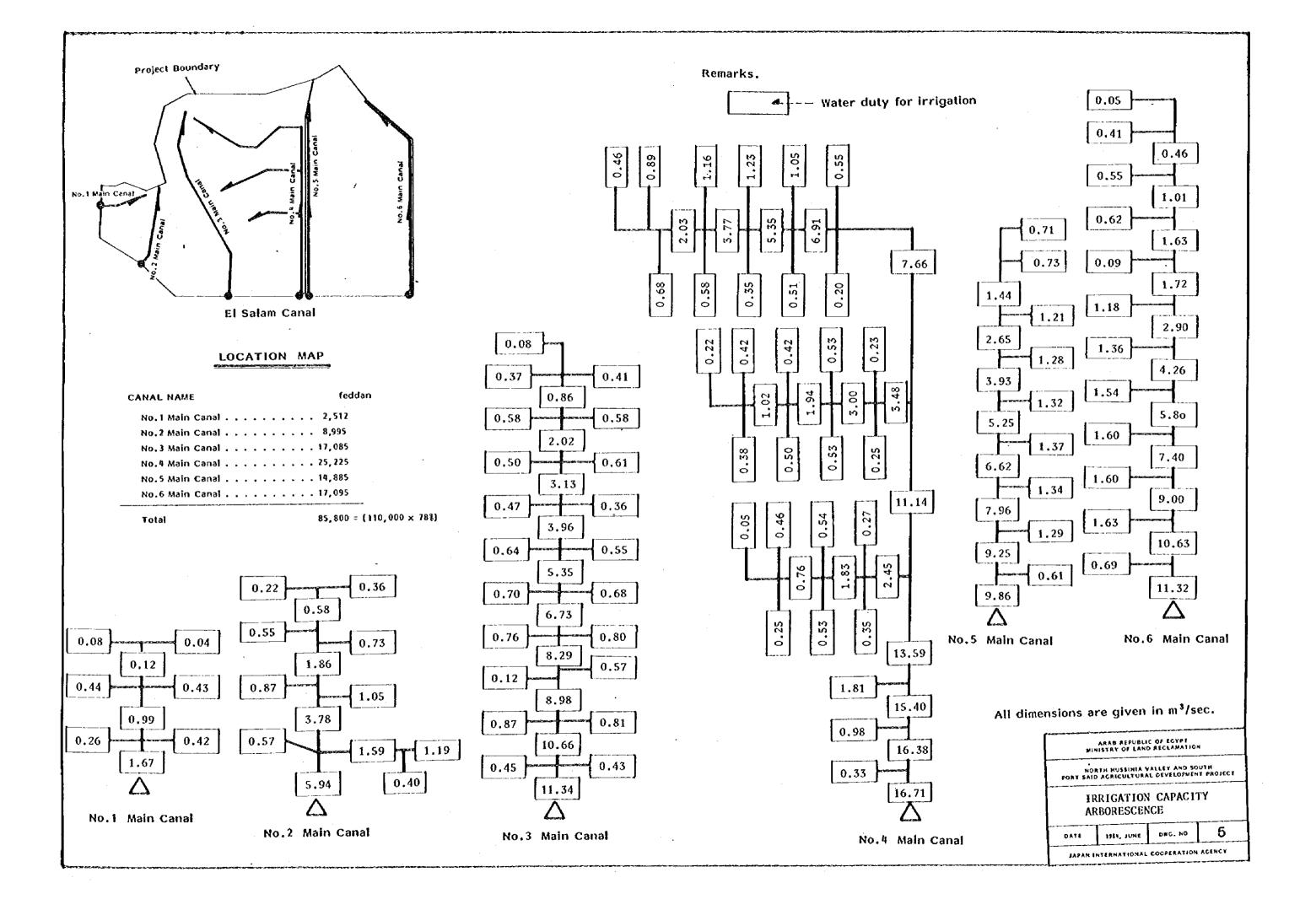
		Gross Aree (Irrigable Area)
SP-1 (South Port Said	No.11	8,981
SP-2 1 "	No.2)	10,653
SP-3 ("	No.3)	5,905
SP-4 ("	No.4}	6,441
NH-1 (North Hussinia	No.1)	11,554
NH2 (No.21	12,369
1NH-3 ("	No.3)	13,672
NH-4 ("	No.4)	11,509
NH-5 ("	No.5)	4,716
Total		85,800 Feddans

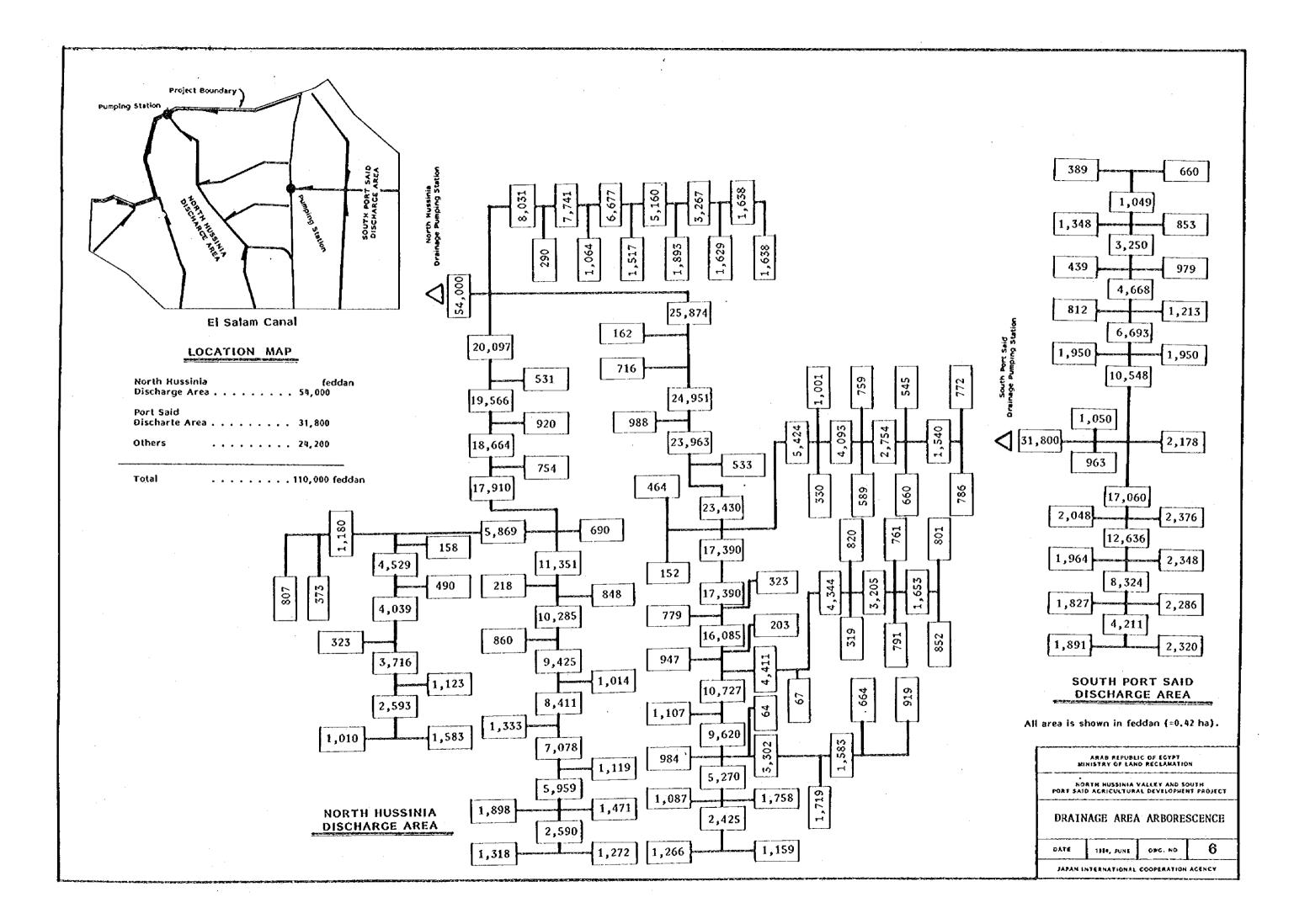
CT AREA

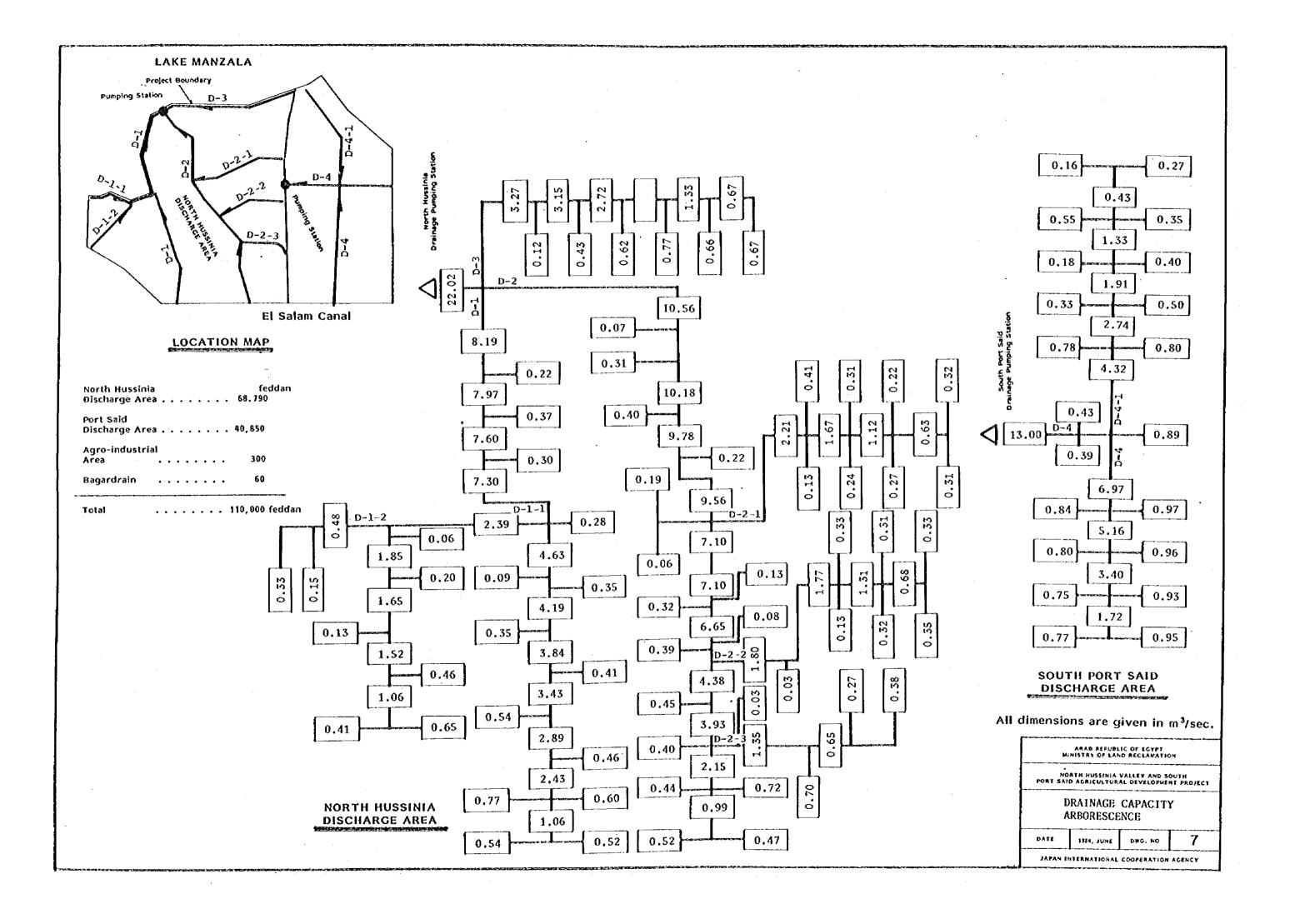
F.	ARAB REPUBL		N
	DATH HUSSINIA		
	TRUCTION ECT AREA	PHASE I	N THE
DATE	1385, JUNE	ONG. NO	3
JAPAN	INTERNATIONAL	COOPERATION	ACENCY

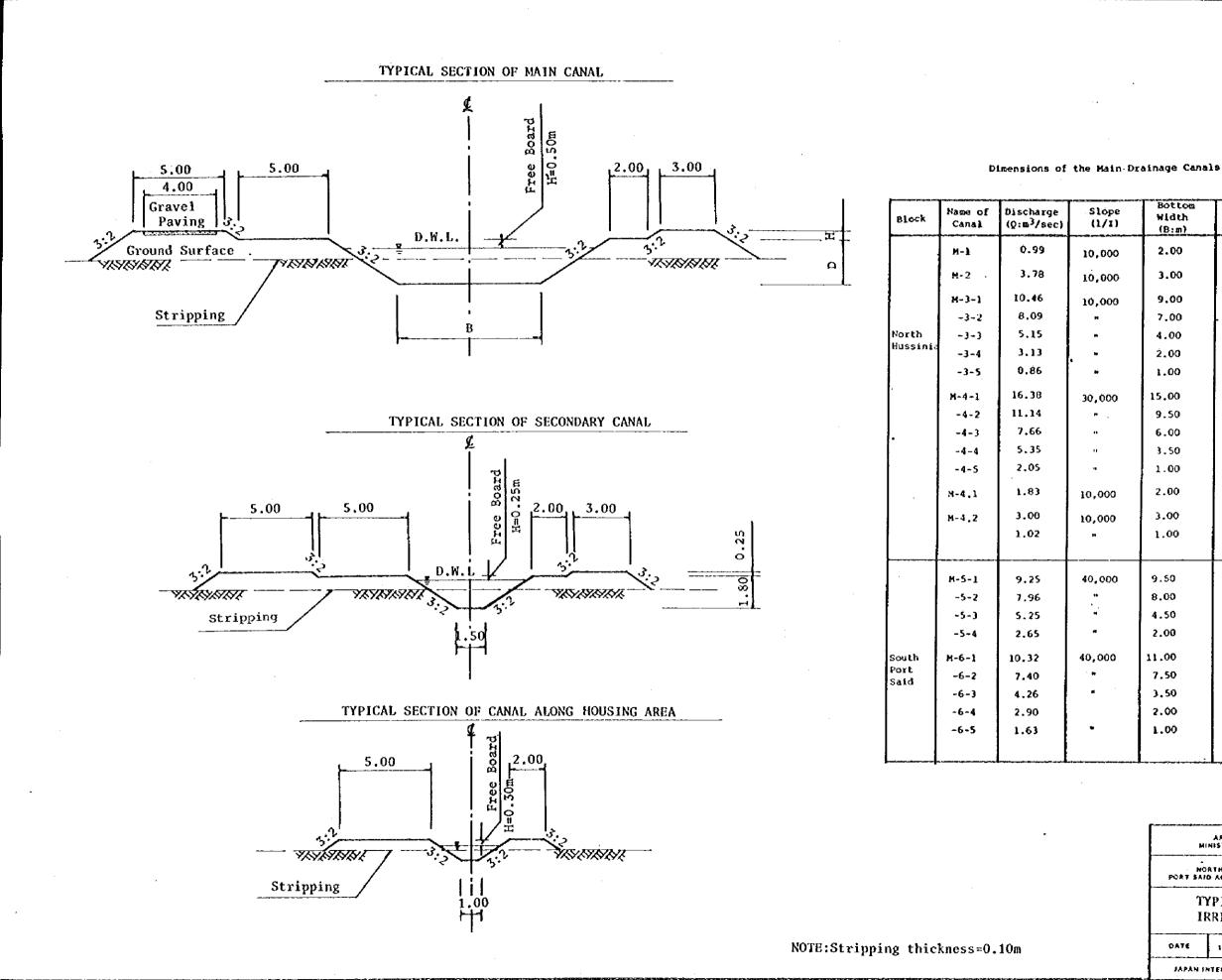






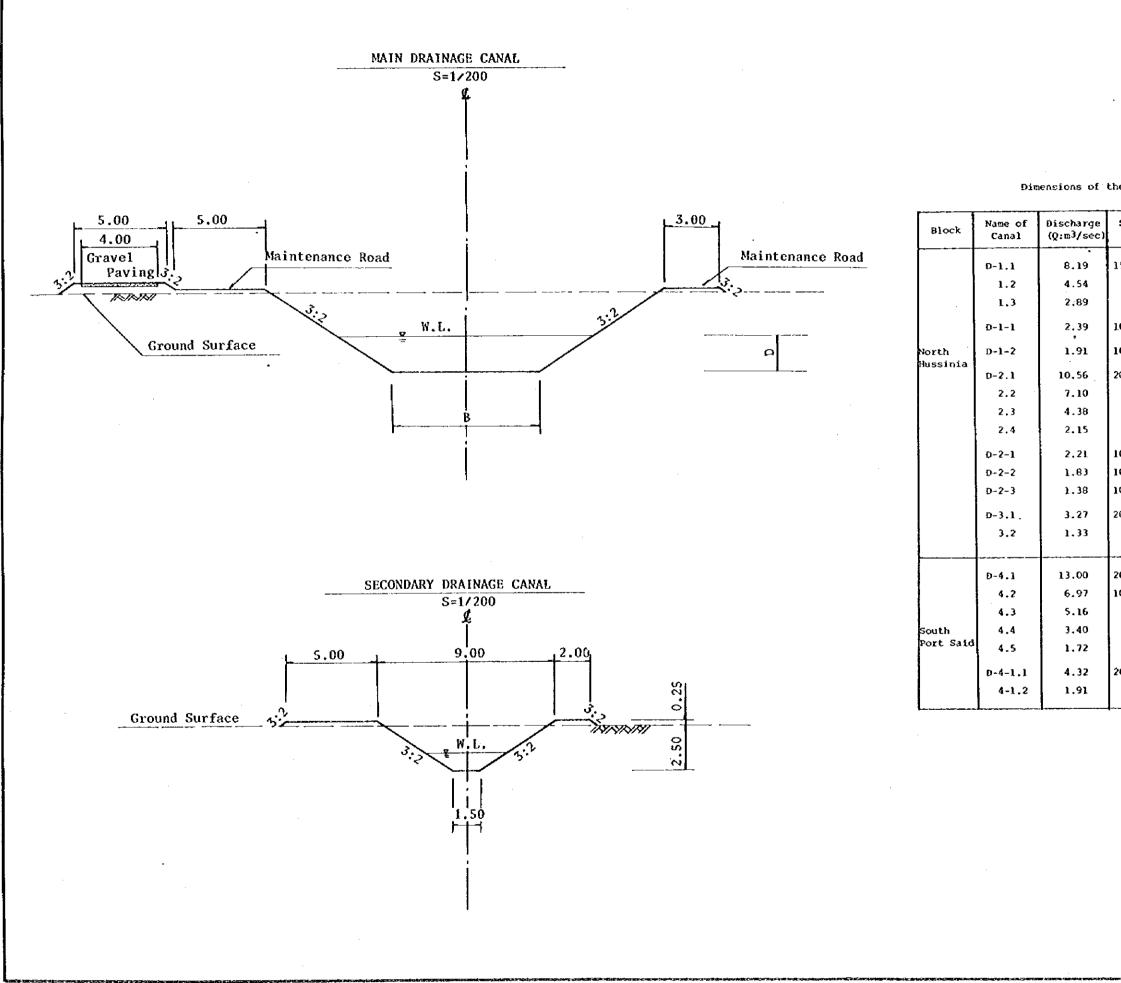






	Botton	Canal	Bank	1
lope 1/1)	Width	Depth	Hight	Length (L:m)
1/1/	(B:m)	(D:01)	{H:m}	(1:0)
,000	2.00	1,50	0.25	3,500
,000	3.00	2.20	0.25	5,500
,000	9.00	2.40	0.50	4,100
M	7,00	2.30	0.50	3,100
•	4.00	2.30	0.25	4,400
•	2.00	2.30	0.25	3,500
	1.00	2,30	0.25	2,100
,000	15.00	3.00	0.50	7,700
- .	9.50	3.00	0.50	4,100
n	6.00	3.00	0.50	6,400
ur -	3.50	3.00	0.25	5,000
	1.00	3.00	0.25	4,500
,000	2.00	2.90	0.25	4,750
,000	3.00	2.60	0,25	4,000
•	1.00	2.6	0.25	3,750
,000	9.50	1.90	0.25	2,400
••	8,00			5,100
M	4.50	2.00	0.25	4,900
•	2.00	3.00	0.50	3,950
,000	11.00	3.00	0.50	5,000
•	7,50	3.00	0.25	5,000
	3,50	3.00	0.25	2,400
	2.00			4,500
	1.00	2.90	Ó,50	6,500
	L			

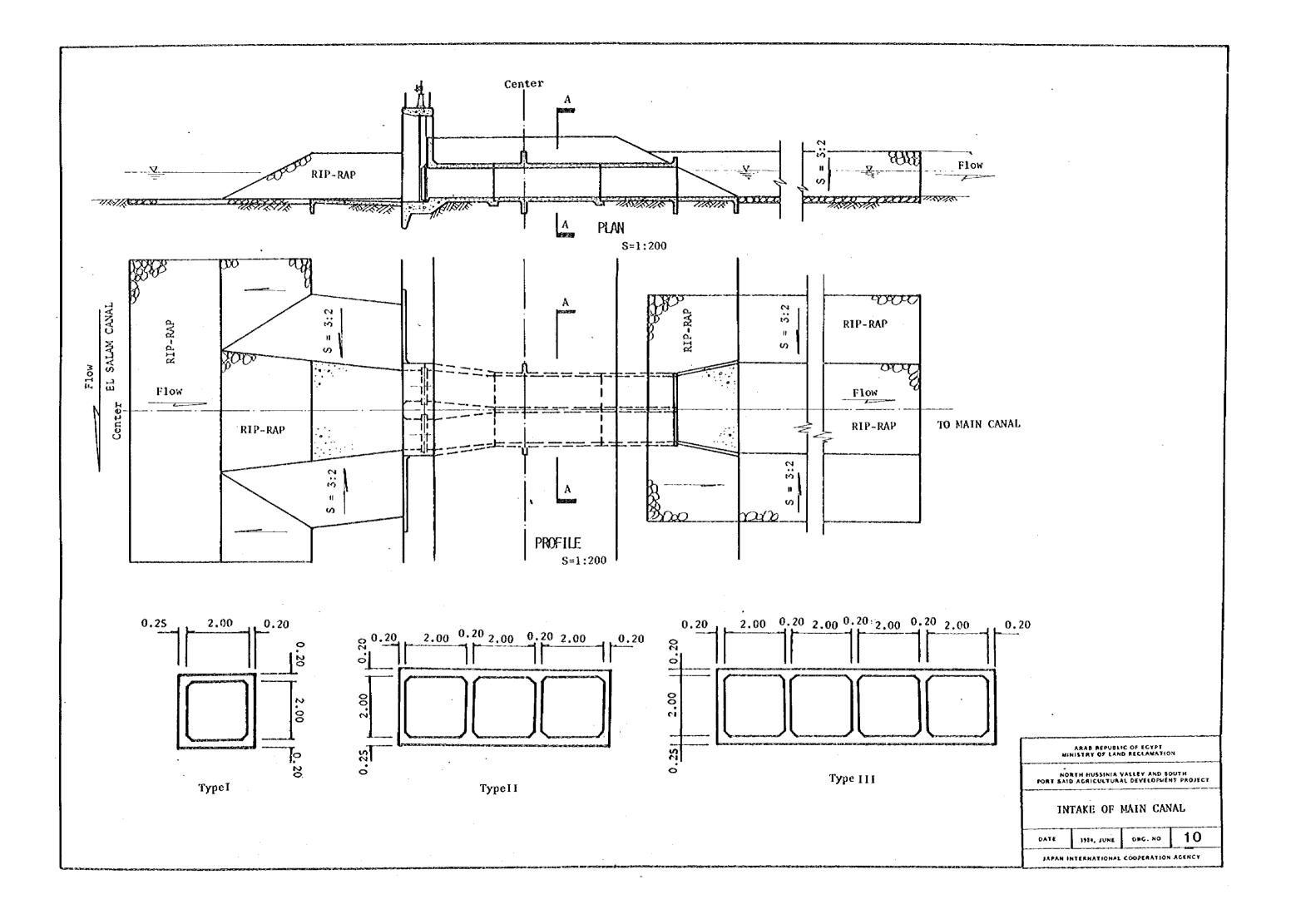
ч	ARAB REPUBL		-
	DATH HUSSINIA (
	YPICAL SI RRIGATION		2
DATE	1984, JUNE	DHG. NO	8
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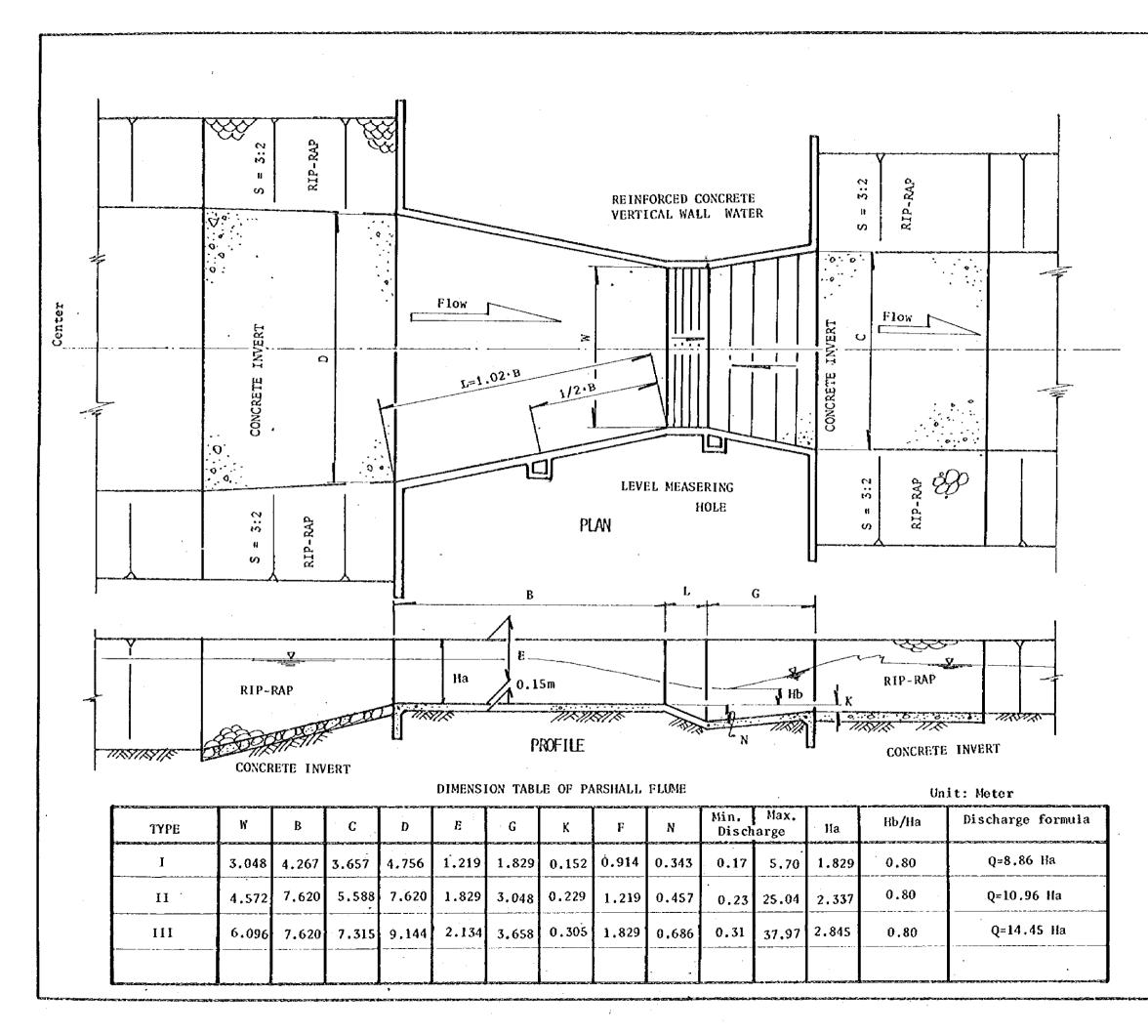


			·
Slope	Bottom	Water	Length
(1/I)	Width	Depth	(L:m)
(1/1)	(B:m)	(D:m)	(0.8)
			0.700
15,000	8.00	1,88	8,500
*	4.00	1.85	5,400
n -	2.00	1.84	5,600
10,000	1,50	1.64	6,200
10,000	1.50	1.48	6,100
20,000	12.00	1.91	7,900
51	8.00	1.88	4,100
21	4.50	1.87	3,300
91	1.50	1.84	5,800
10,000	1.50	1.59	8,800
10,000	1.50	1.45	6,200
10,000	1.50	1.27	4,000
20,000	3.00	1.86	6,000
14	1.50	1.47	6,200
20,000	15.00	1.91	5,000
-	5.00	1.90	2,500
10,000			
ы	4.00	1.78	2,500
-	2.50	1.69	2,500
-	1.50	1.41	3,200
20,000	5.00	0,37	5,500
n	1.50	0.27	4,100
		L	L

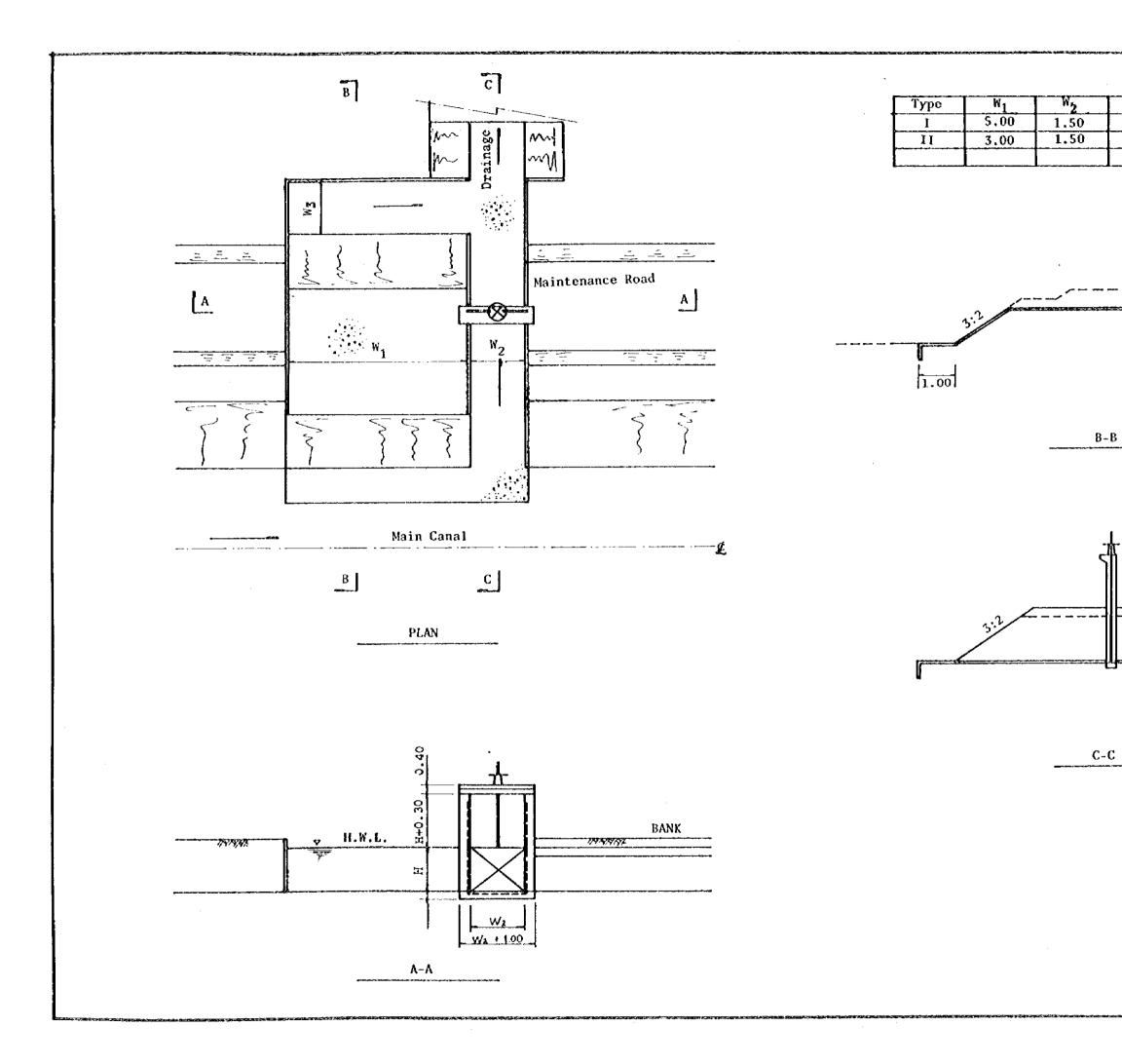
Dimensions of the Main Drainage Canals

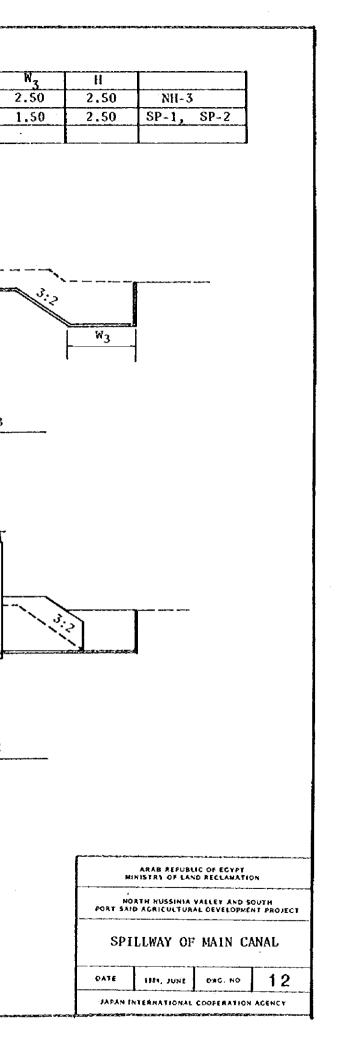
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		VALLEY AND SO AL DEVELOPMEN	
TYPIC CANAI	··· • - • - •	ON OF DR	AINAGE
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	NTERNATIONAL		

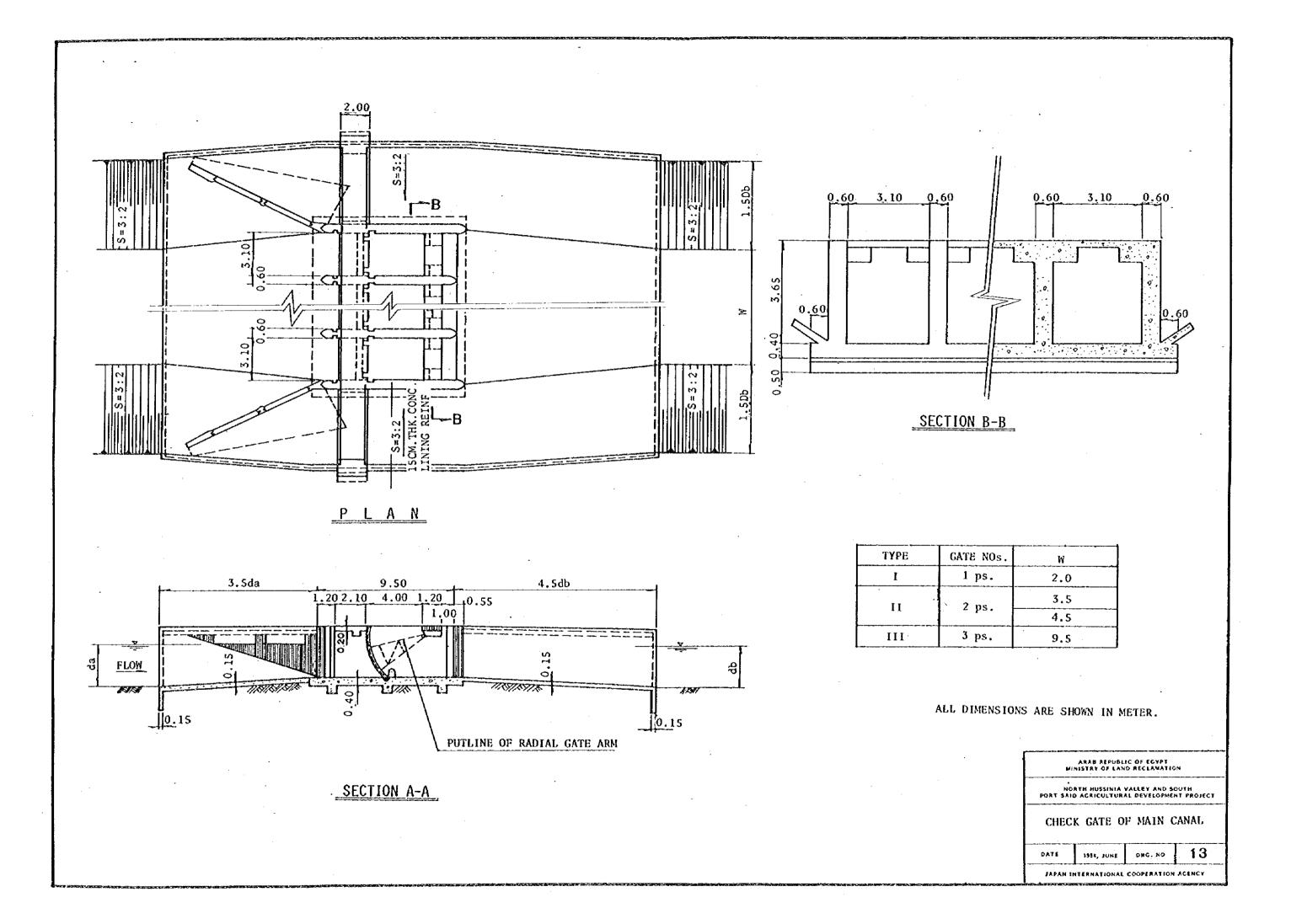


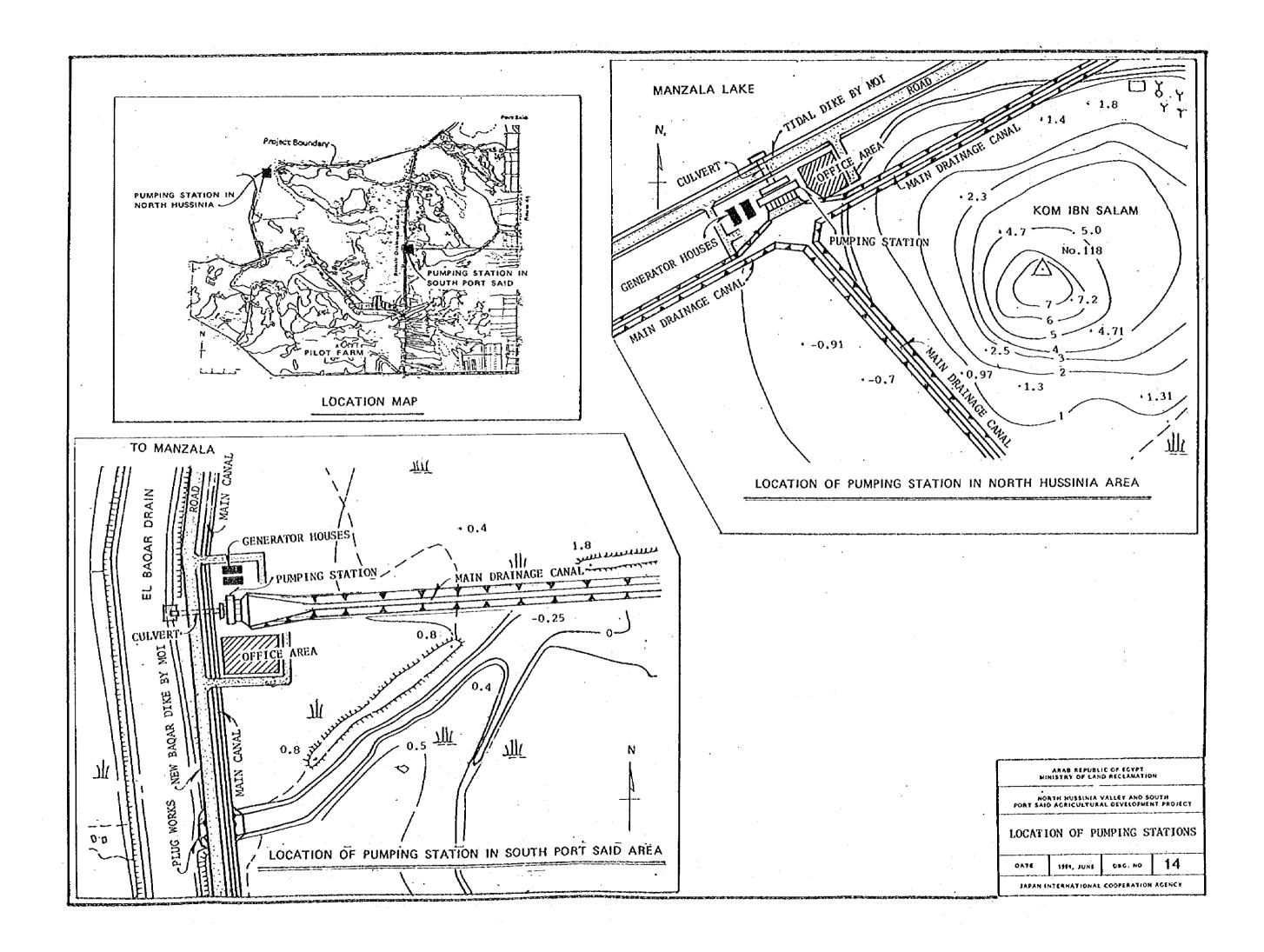


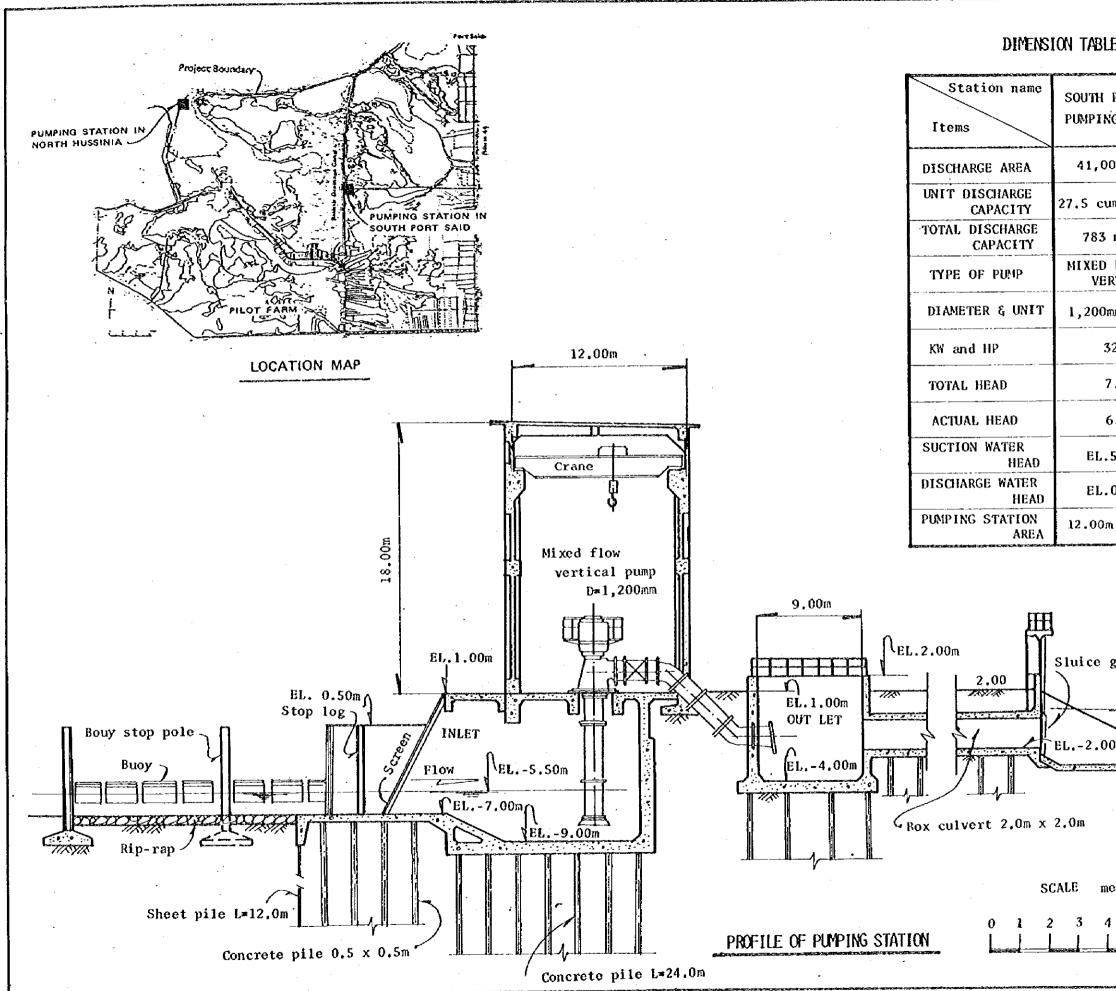
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POAT S	AND AGRICULTU	A VALLEV AND SO RAL DEVELOPMEN	UTH T PROJECT
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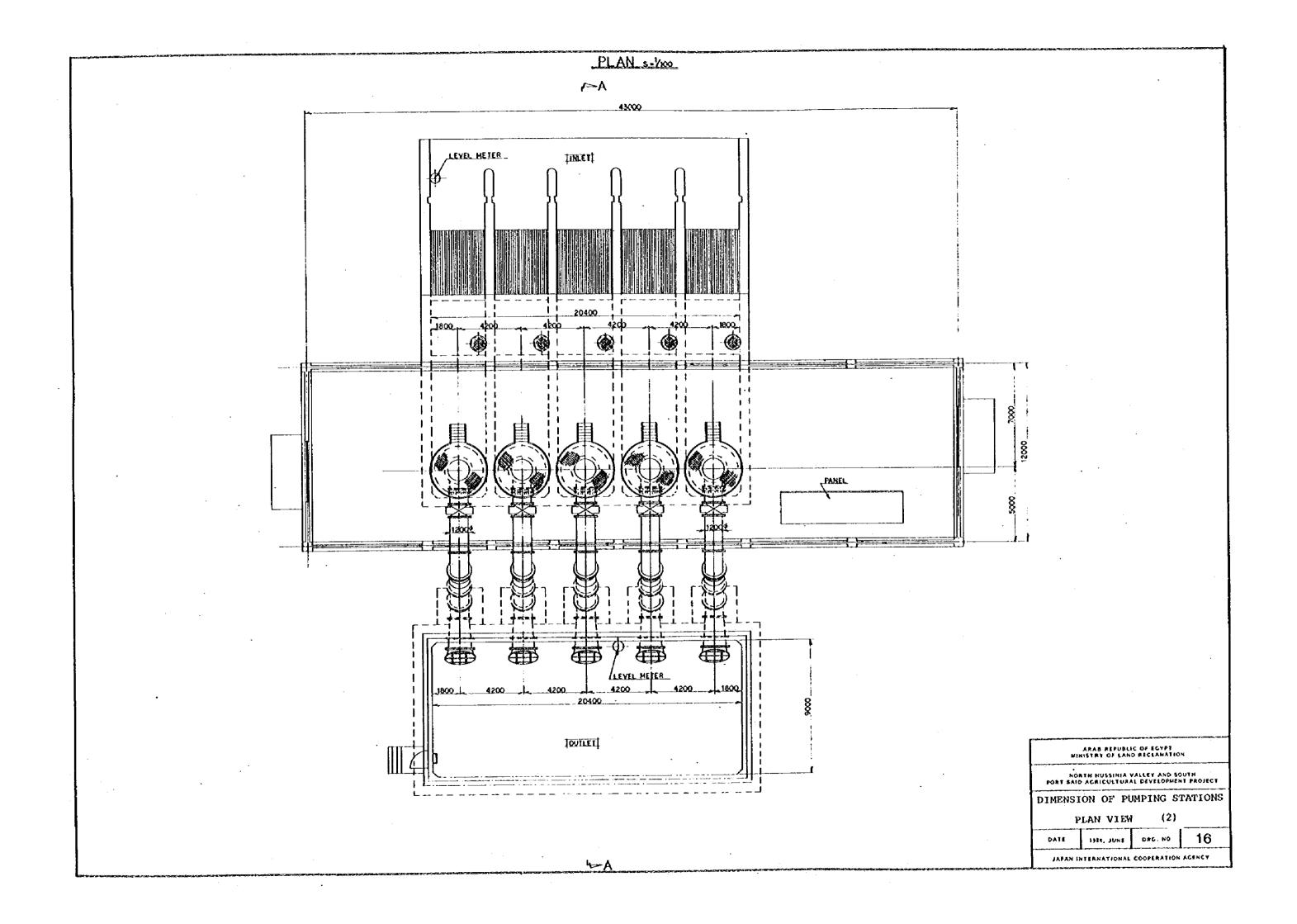


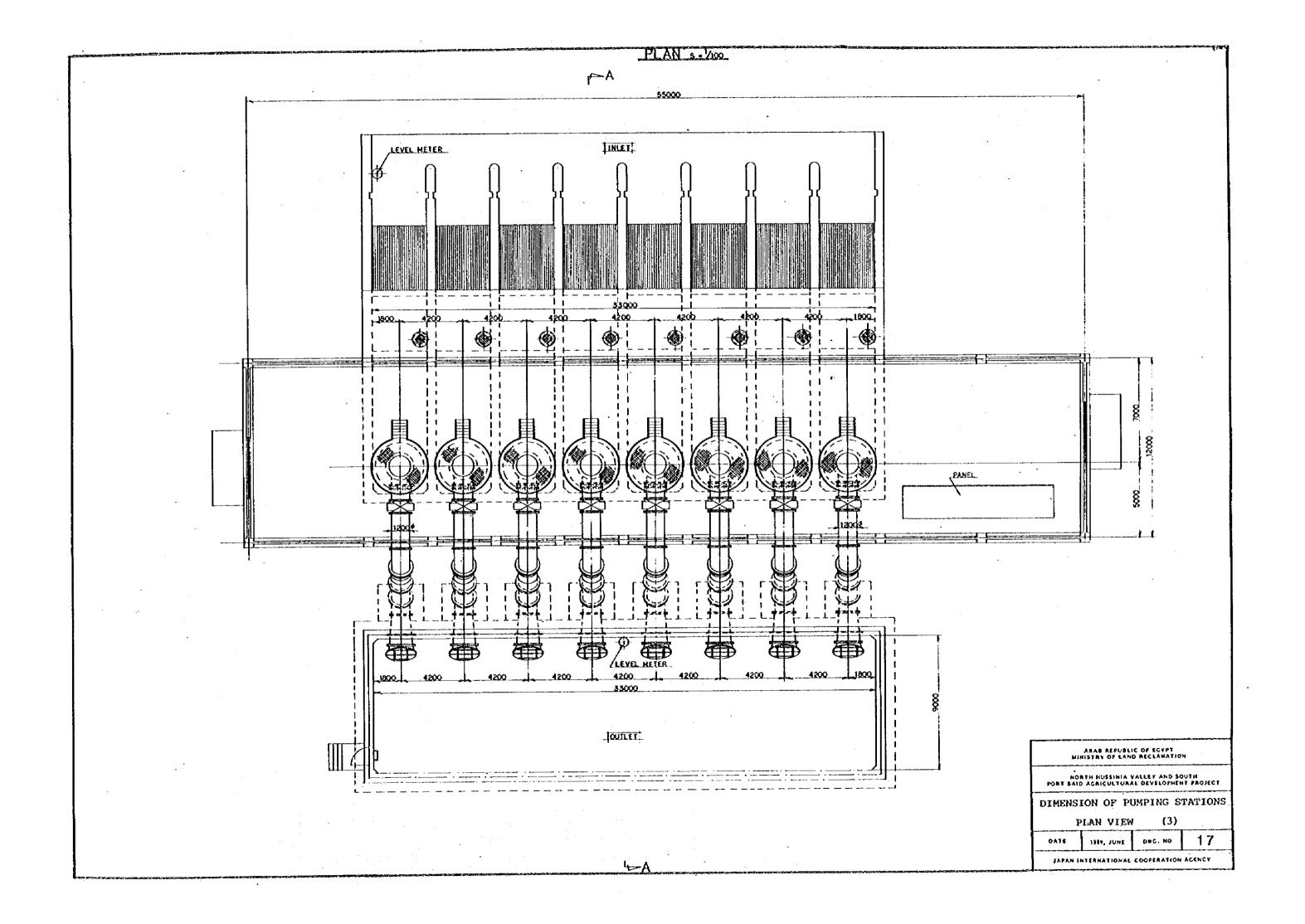


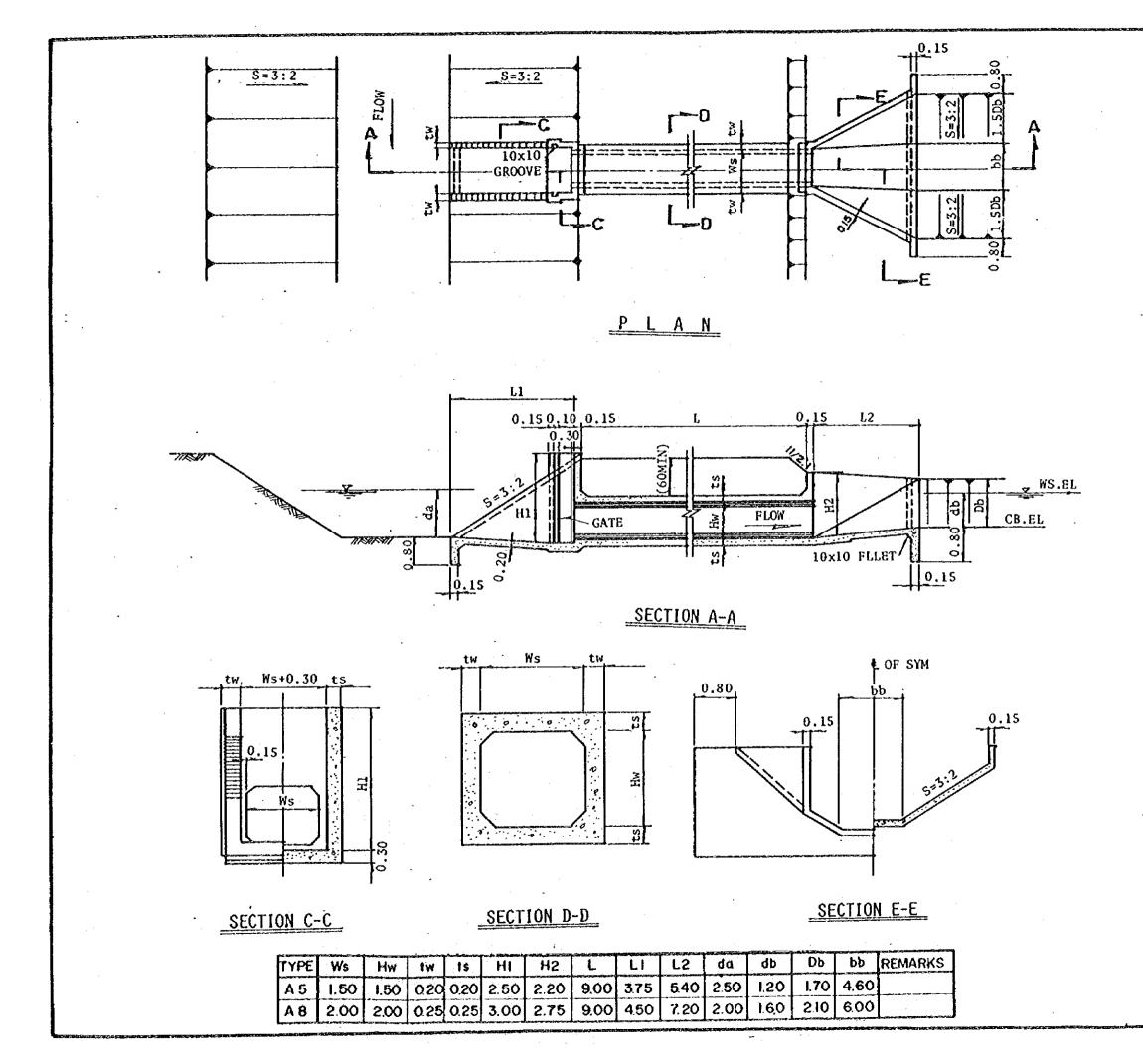


e of pumping station							
PORT SA NG STATI	1*	RTH HUSS MPING ST					
00 fedda	in 61	9,000 fe	ddan				
um/day/f	ed. 27	.5 cum/d	ay/fed.				
m ³ /min.	1	,318 m ³ /	min.				
FLOW RTICAL P		XED FLOW	V AL PUMP				
mm x 5	1,	,200mm x	8				
320KW		320	KW				
7.00m		7.00	n				
6.00m		6.00	n				
.5.50m		EL.5.50	Im				
.0.50m		EL.0.50	m				
m x 43.0	0m 13	2.00m x	55.00m				
gate <u>AWL.0.50m</u> <u>Flow</u> Om <u>Rip-rap</u>							
[ARAB REPUBLI	C OF EGYPT				
neters		TH RUSSINIA	ALLEY AND SO				
	DIMENSI	ION OF P	MPING S	·			
45		ECTION V		15			
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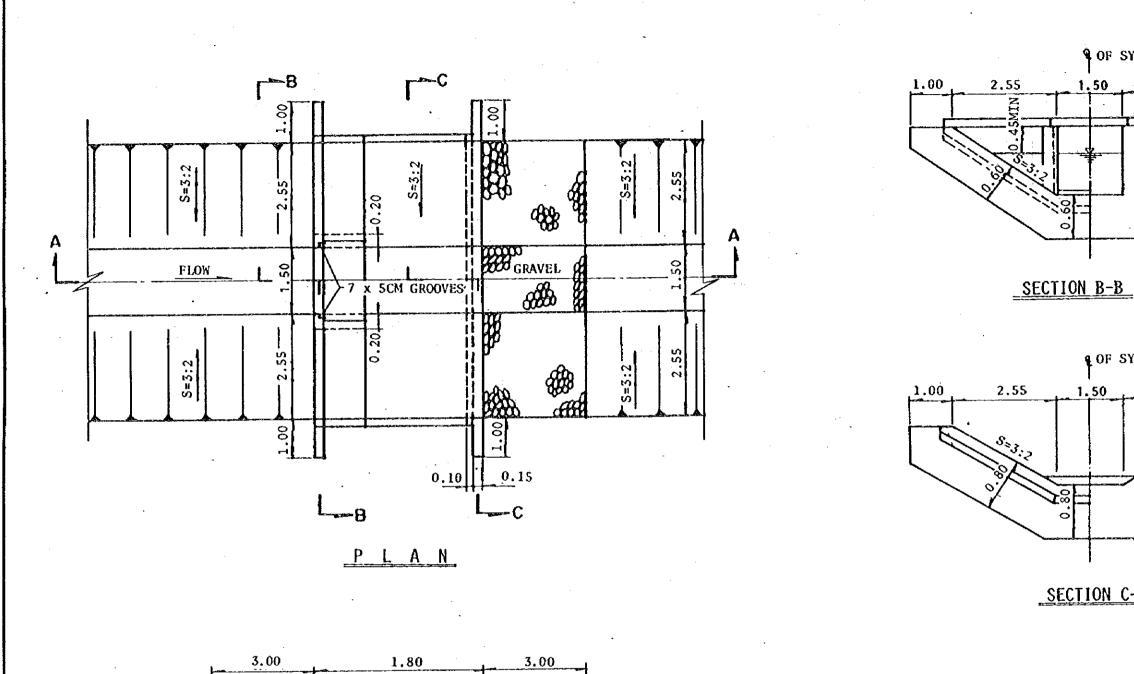
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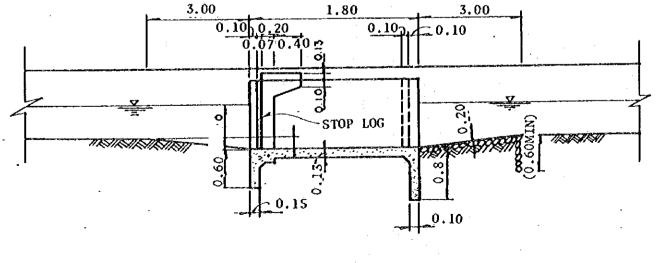




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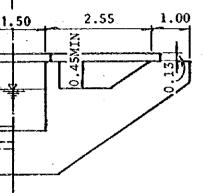


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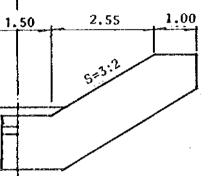
SECTION A-A

Q OF SYMMETRY





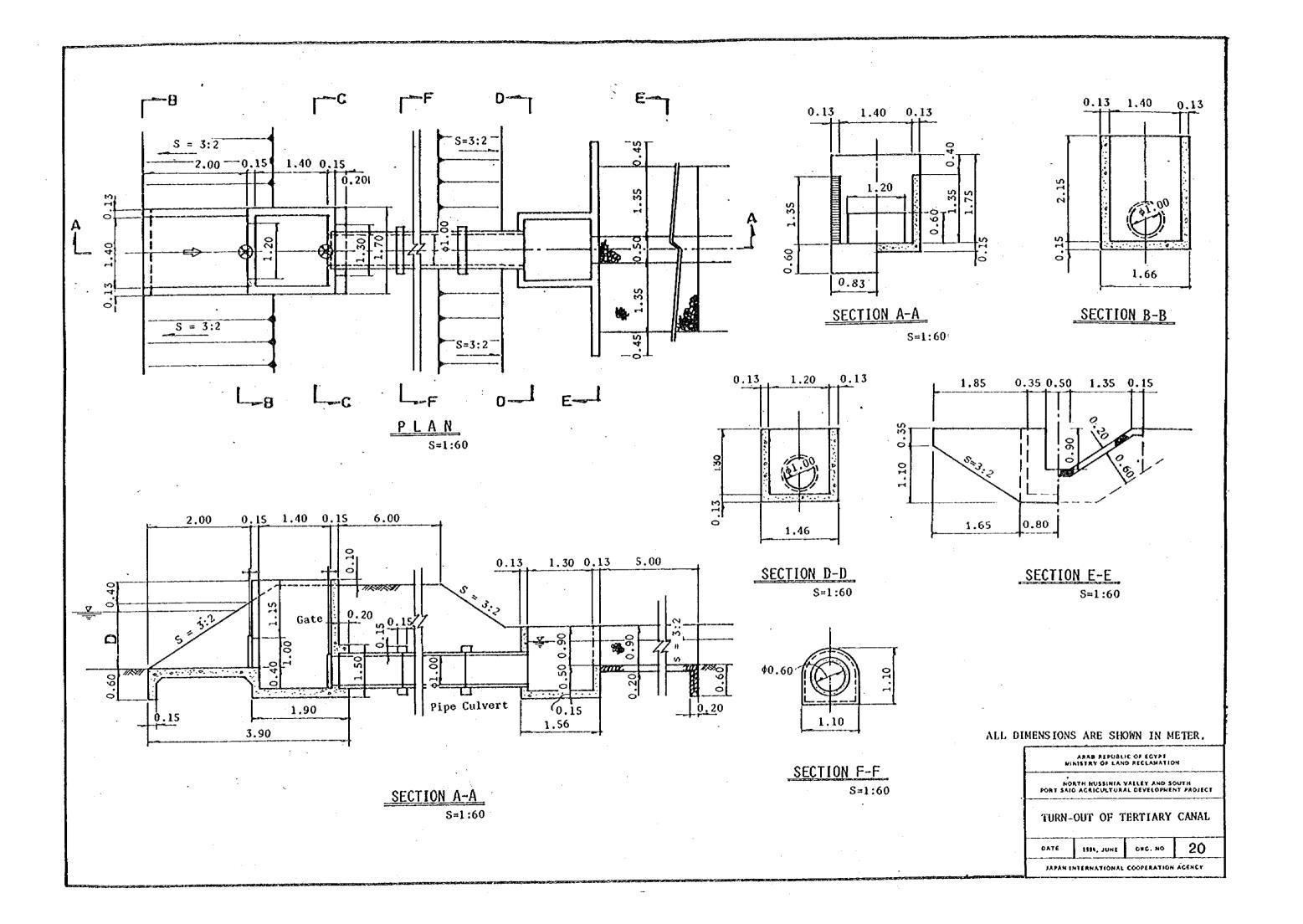
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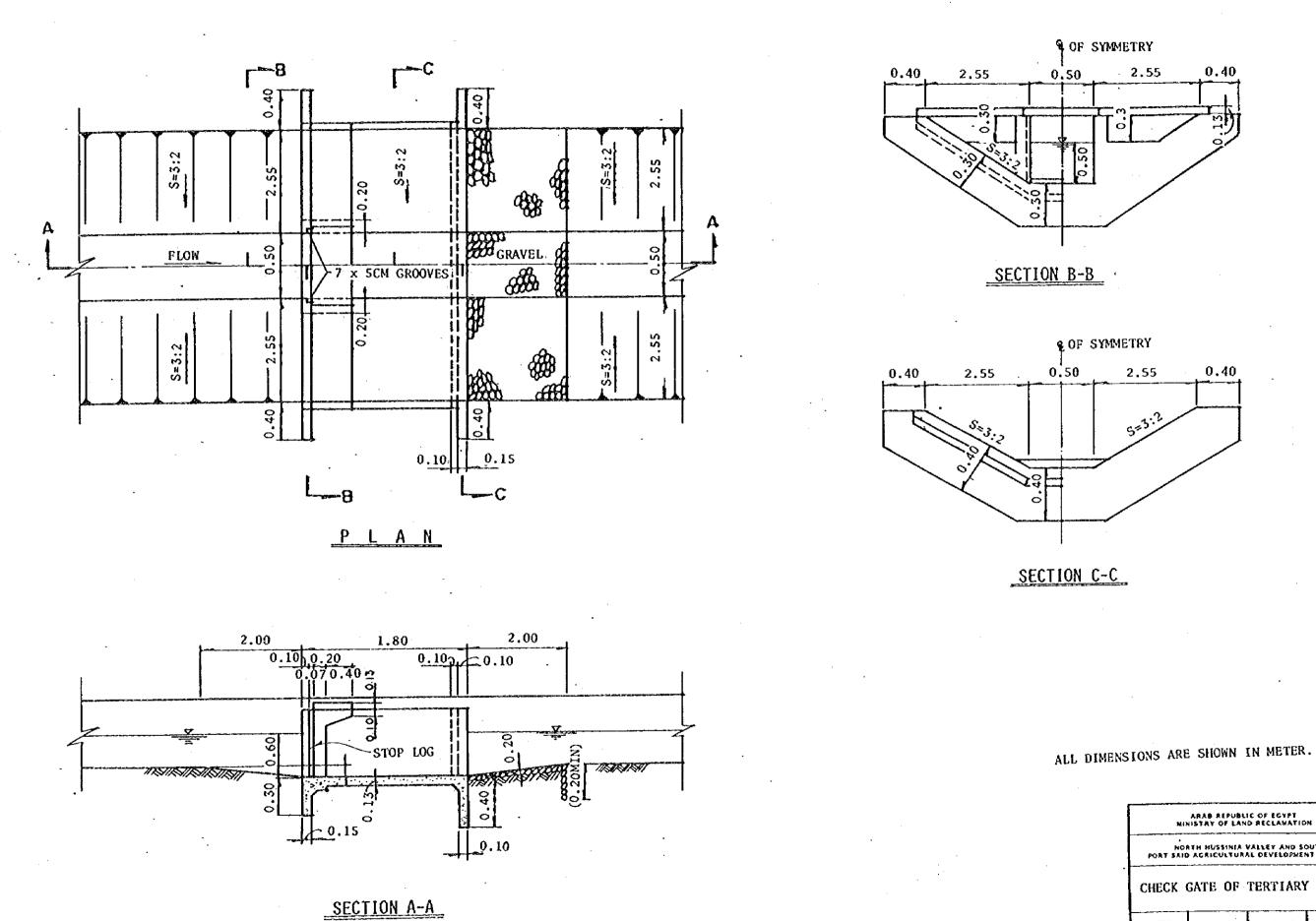


SECTION C-C

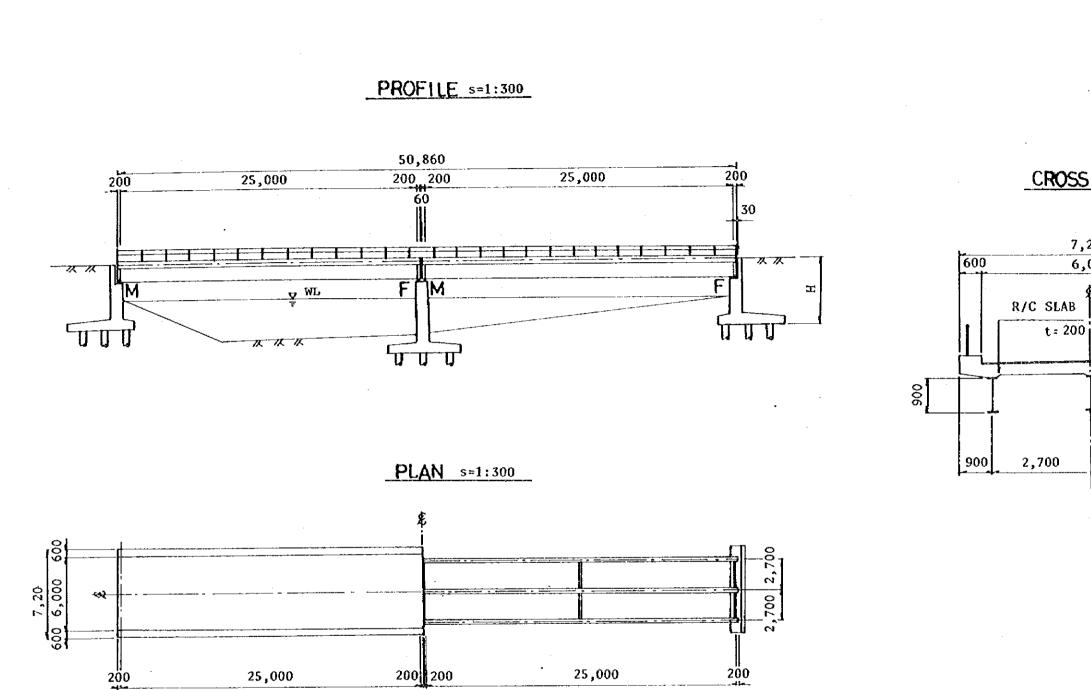
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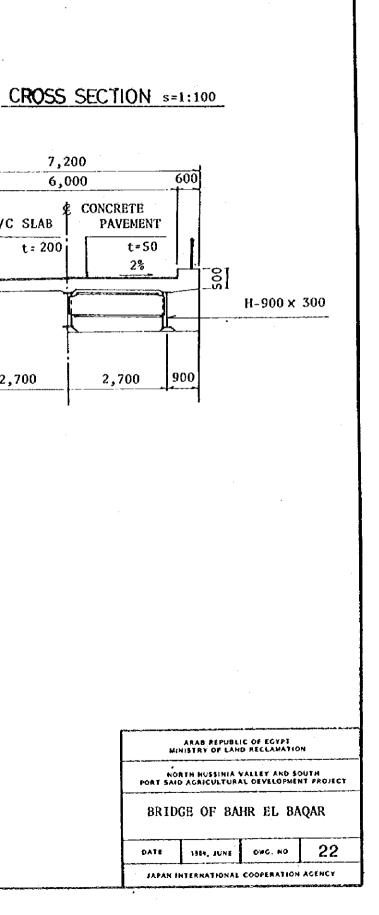
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	DRTH HUSSINIA 1 ID AGRICULTUR		
CHECK	GATE OF S	ECONDAR	Y CANAL
DATE	1915, JUNE	076. NO	19
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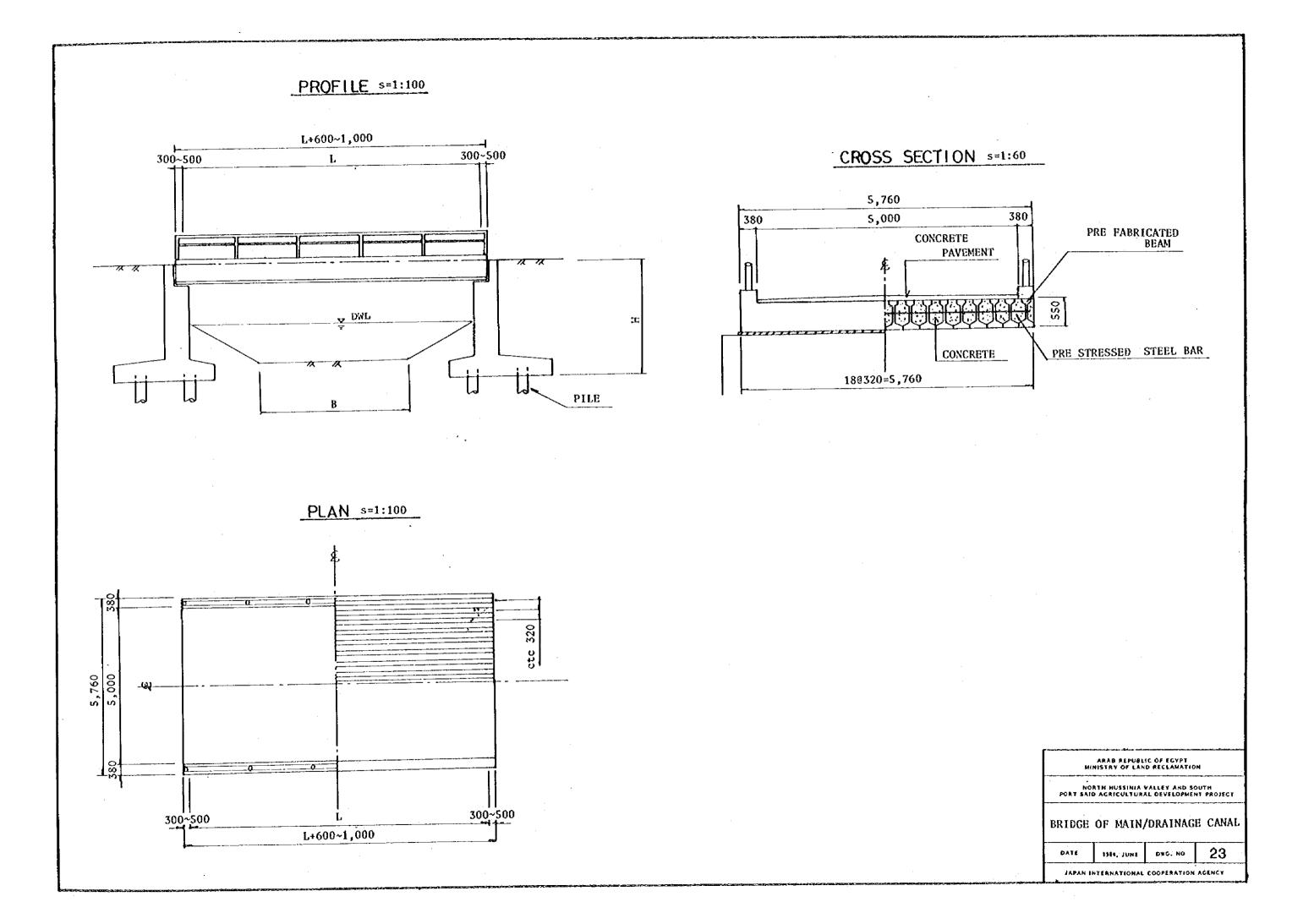


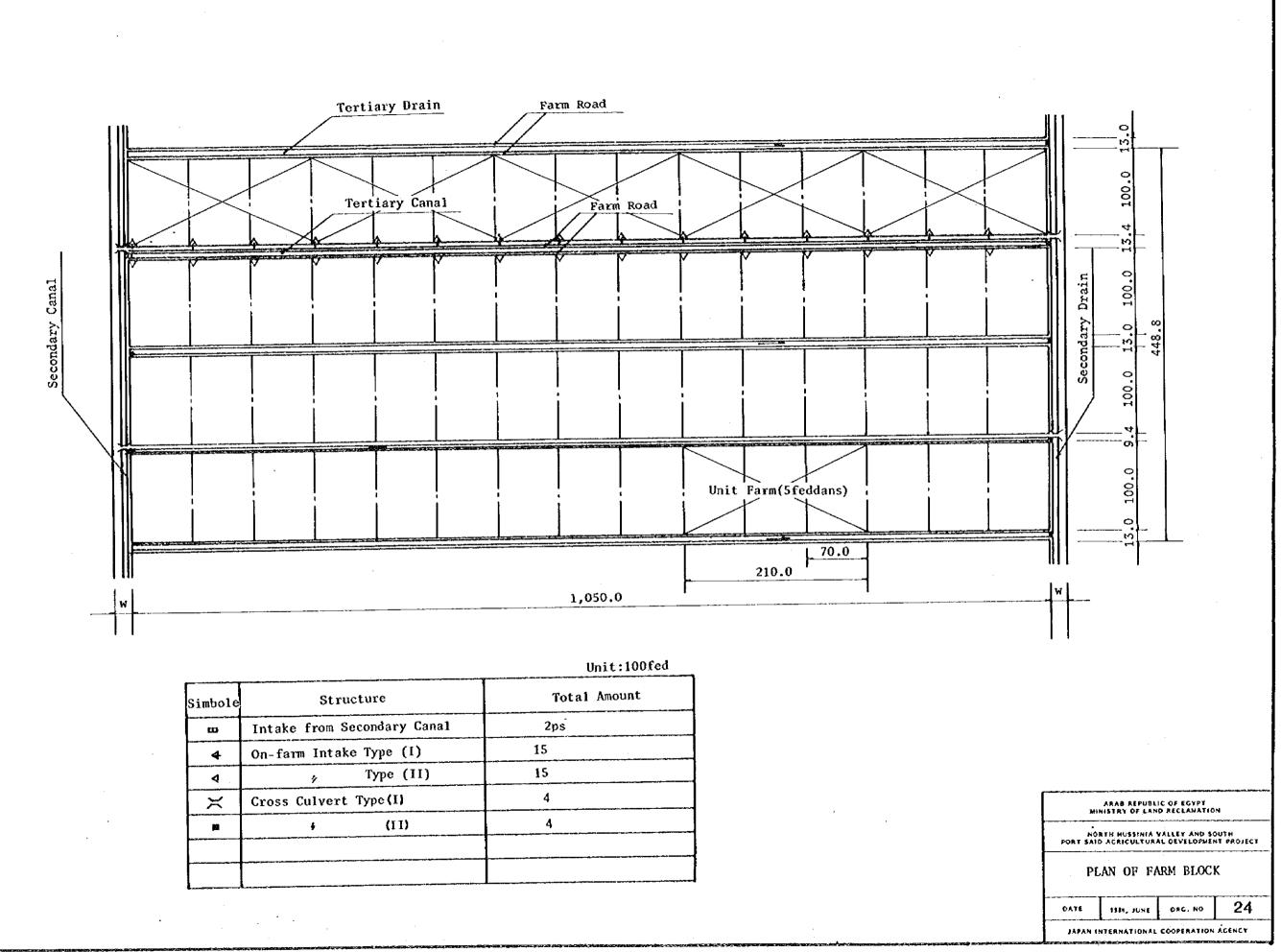


ſ	34.0	ARAB REPUBLI NISTRY OF LAN		×
Į		ATH HUSSINIA V D AGRICULTURA		
•	CHECK	GATE OF	TERTIARY	CANAL
	DATE	1924, JUNE	OWC. NO	21
	JAPAN I	NTERNATIONAL	COOPERATION	AGENCY



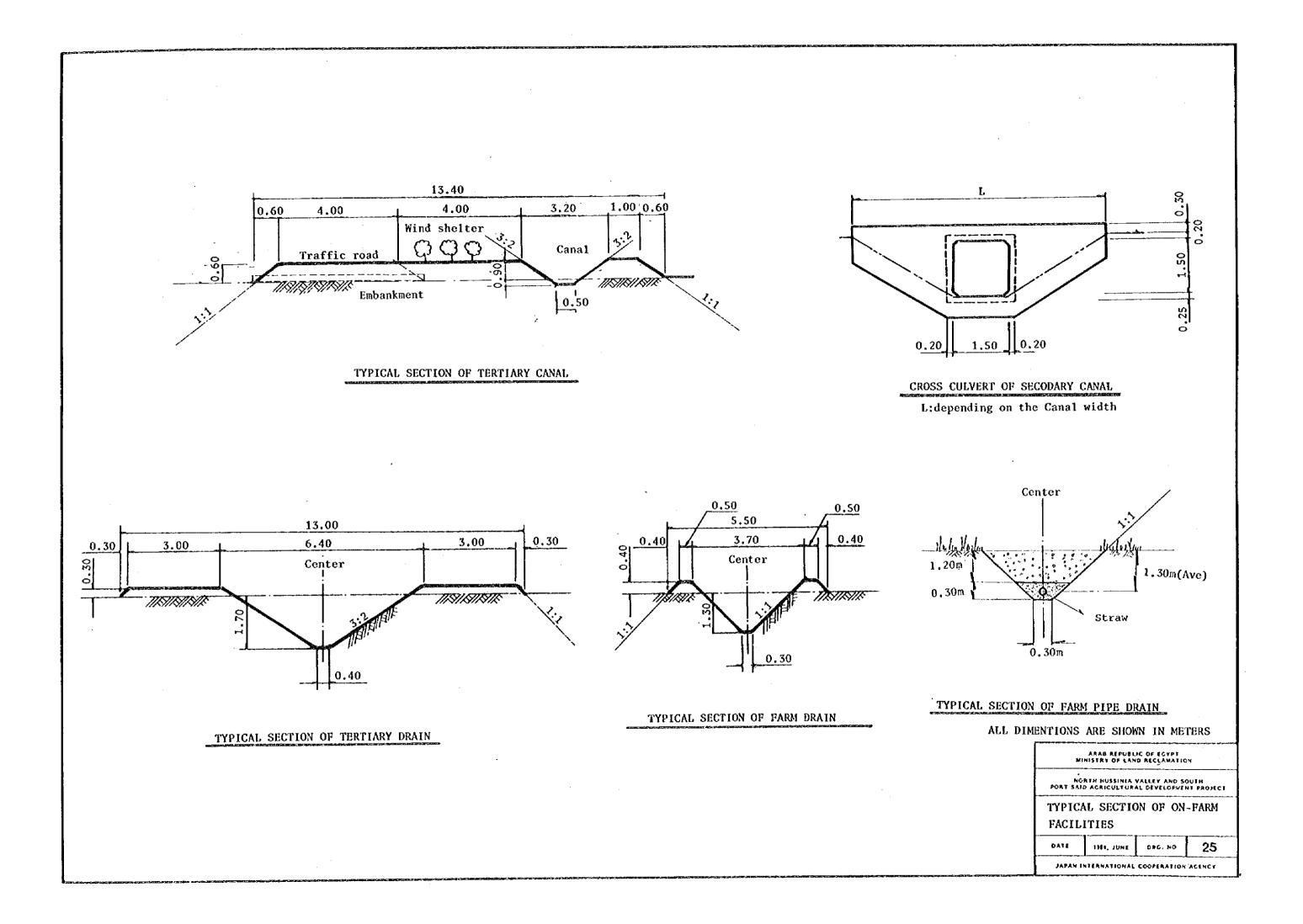


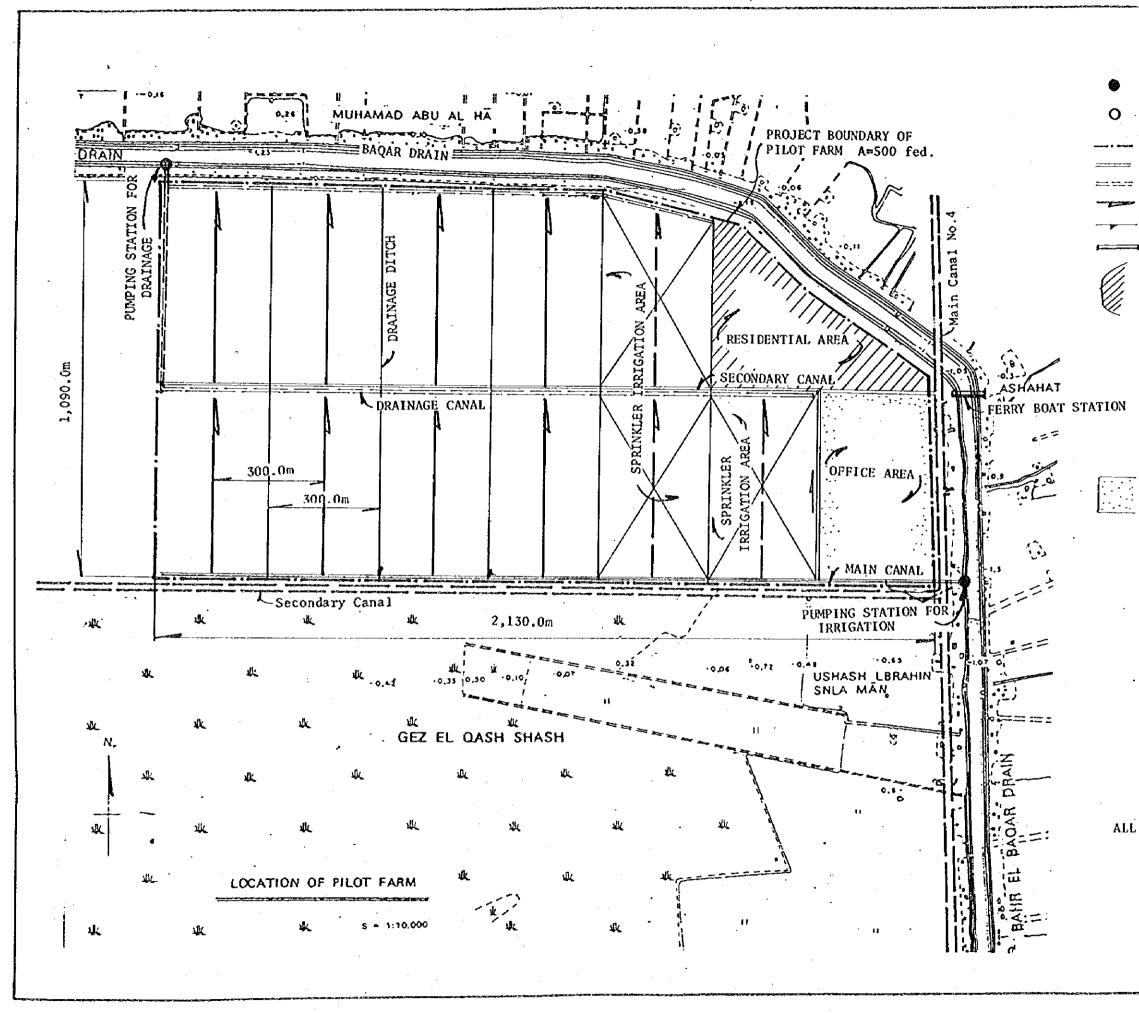




Unit	:	1	00	fed	l –
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Simbole	Structure	Total Amount	
500	Intake from Secondary Canal	2ps	
4	On-farm Intake Type (1)	15	
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	у Туре (II)	15	
×	Cross Culvert Type(I)	4	
 19	; (11)	4	

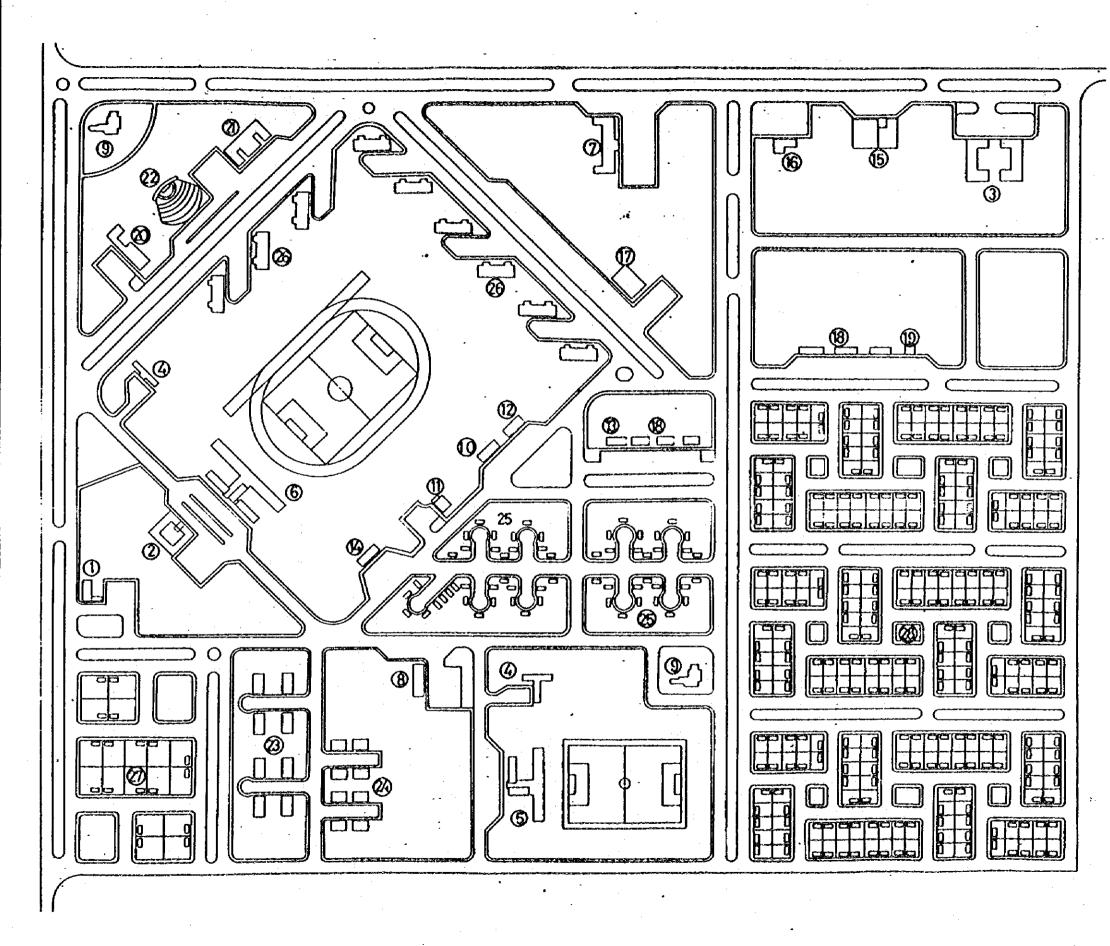




- I - Pl	LEGEND MPING STATION FOR RRIGATION MPING STATION FOR RAINAGE
ÞI	ROJECT BOUNDARY
M TI	AIN,SECONDARY CANAL AIN,SECONDARY DRAINAGE CANAL ERTIARY CANAL ERTIARY DRAINAGE CANAL
F	ERRY BOAT STATION
R	ESIDENTIAL AREA
	• LABOR HOSES =700 sqin
	• MOTOR POOL=450 sqm
	• STORAGE=400 sqm
	• CATTLE SHED=400 sqm
I	OFFICE AREA • OFFICE BUILDING≈150 sqm
	• TRAINNING CENTER=300 sqm
,	• LODGING FOR TRAINER 600 sqm.
	 EXPERIMENTAL OFFICE FOR LIVESTOCK=150 sqm LABORATORY FOR
	AGRICULTURE =200 sqm
	ø MOSQUE≠100 sqm
•	
	•
IME	INSIONS ARE SHOWN IN METER.
	ARAB REPUBLIC OF EGYPT WINISTRY OF LAND RECLAMATION
	NORTH HUSSINIA VALLEY AND SOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT

LAYOUT OF PILOT FARM

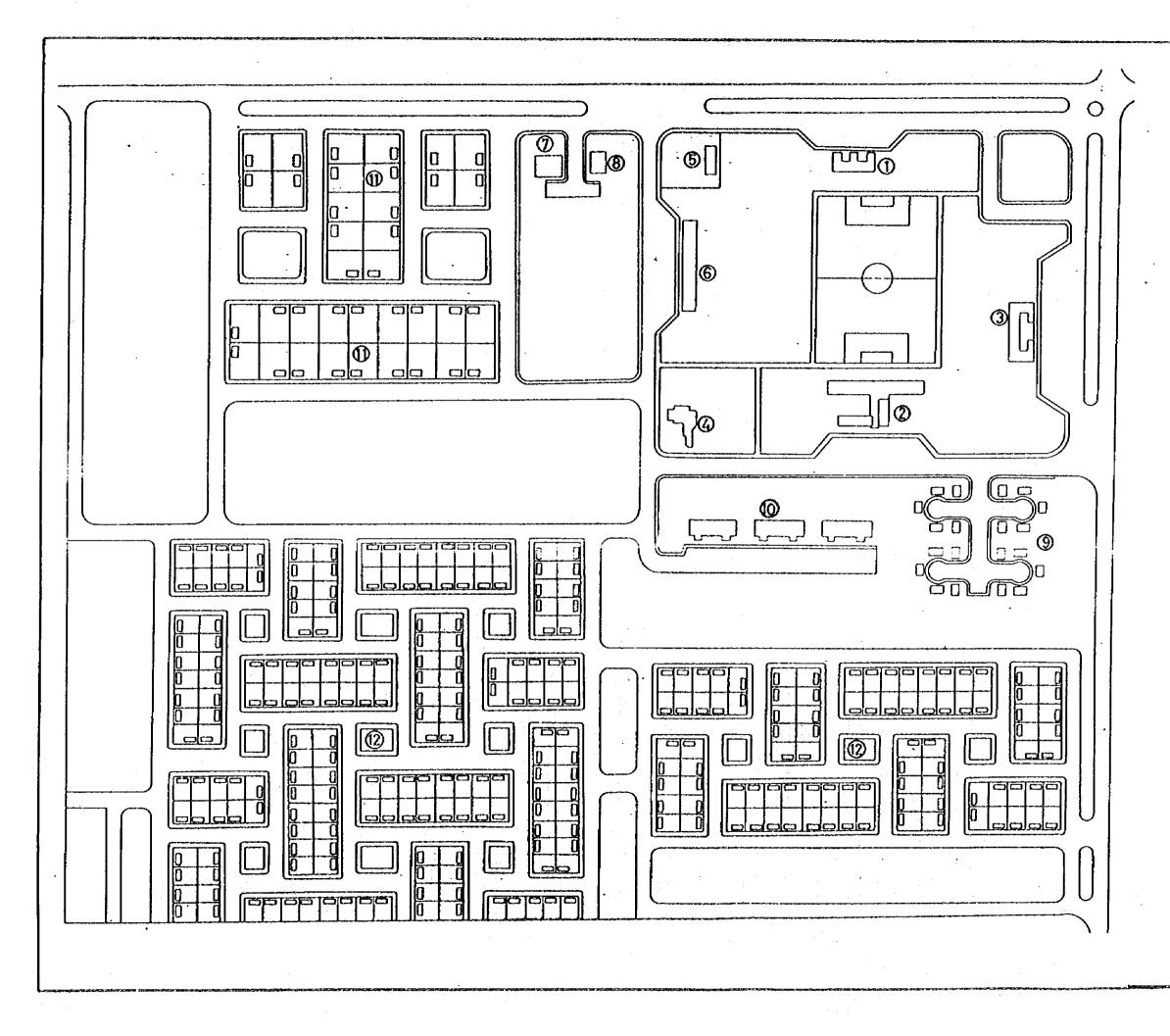
DATE 1314, JUNE DEC. NO 26 JAPAN INTERNATIONAL COOPERATION ACENCY



_	
~	VILLAGE DEVELOPMENT OFFICE
2	ADMINISTRATION OFFICE
	ARTIFICIAL INSEMINATION CENTER
	NURSERY SCHOOL
S	COMBINED SCHOOL
6	HIGH SCHOOL
\bigcirc	HOSPITAL
8	MEDICAL TREATMENT UNIT
9	MOSQUE
Q	POLICE STATION
Û	POST OFFICE
(<u>2</u>)	FIRE STATION
3	STORE
-	VILLAGE BANK
Ð,	WORKSHOP
<u>(</u>]6	AUTO SERVICE
Ū	MARKET WITH BAKERY
· <u>1</u> 8	GROUP OF SHOPS
	SEPARATED BAKERY
<u>20</u>	REST HOUSE FOR EMPLOYEES
	CLUB
<u>(</u> 22	CINEMA/THEATRE HOUSE
	DIRECTORS' HOUSE
-	ASS'T DIRECTORS' HOUSE
Q5	TECHNICAL LABORERS' HOUSE
\sim	APARTMENT
T	OWNERS' HOUSE
<u>(</u> 28	FARMERS' HOUSE
	0 <u>50</u> 100 ^m
\searrow	
	•
	ARAB REPUBLIC OF ECYPT MINISTRY OF LAND RECLAMATION
	NORTH HUSSINIA VALLEY AND SOUTH PORT SAID ACEICULTURAL DEVELOPMENT PROJECT
	· · · · · · · · · · · · · · · · · · ·

LOCATION of BUILDINGS of CENTRAL VILLAGE CNG NO 27 DATE SHES, JUNE JAFAN INTERNATIONAL COOPERATION ACENCY

6

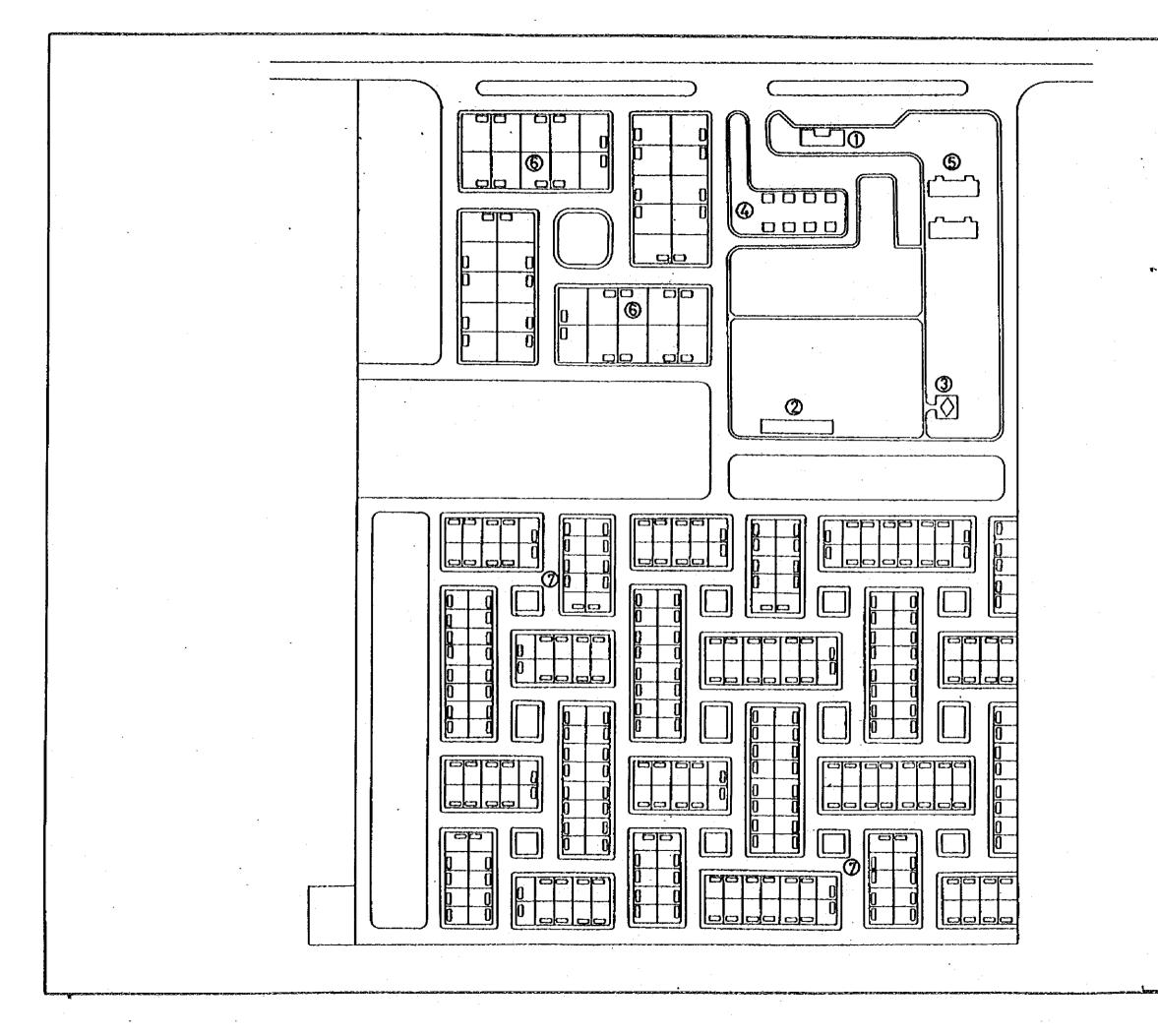


- (1) VILLAGE DEVELOPMENT OFFICE
- (2) COMBINED SCHOOL
- (3) MEDICAL TREATMENT UNIT
- (4) MOSQUE
- (5) AUTO SERVICE
- 6 MARKET WITH BAKERY
- 1 DIRETORS' HOUSE
- (8) ASS'T DIRECTORS' HOUSE
- (9' TECHNICAL LABORERS' HOUSE
- 10 APARTMENT
- $\widehat{1}$ owners' house
- 12 FARMERS' HOUSE



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	DRTH HUSSINIA 1		
LO	CATION o	f BUILD	INGS .
	of SERVI	CE VILL	AGE
DATE	SSER, JUNE	CHC. NO	28



(1) AGRI. ADMINISTRATIVE OFFICE

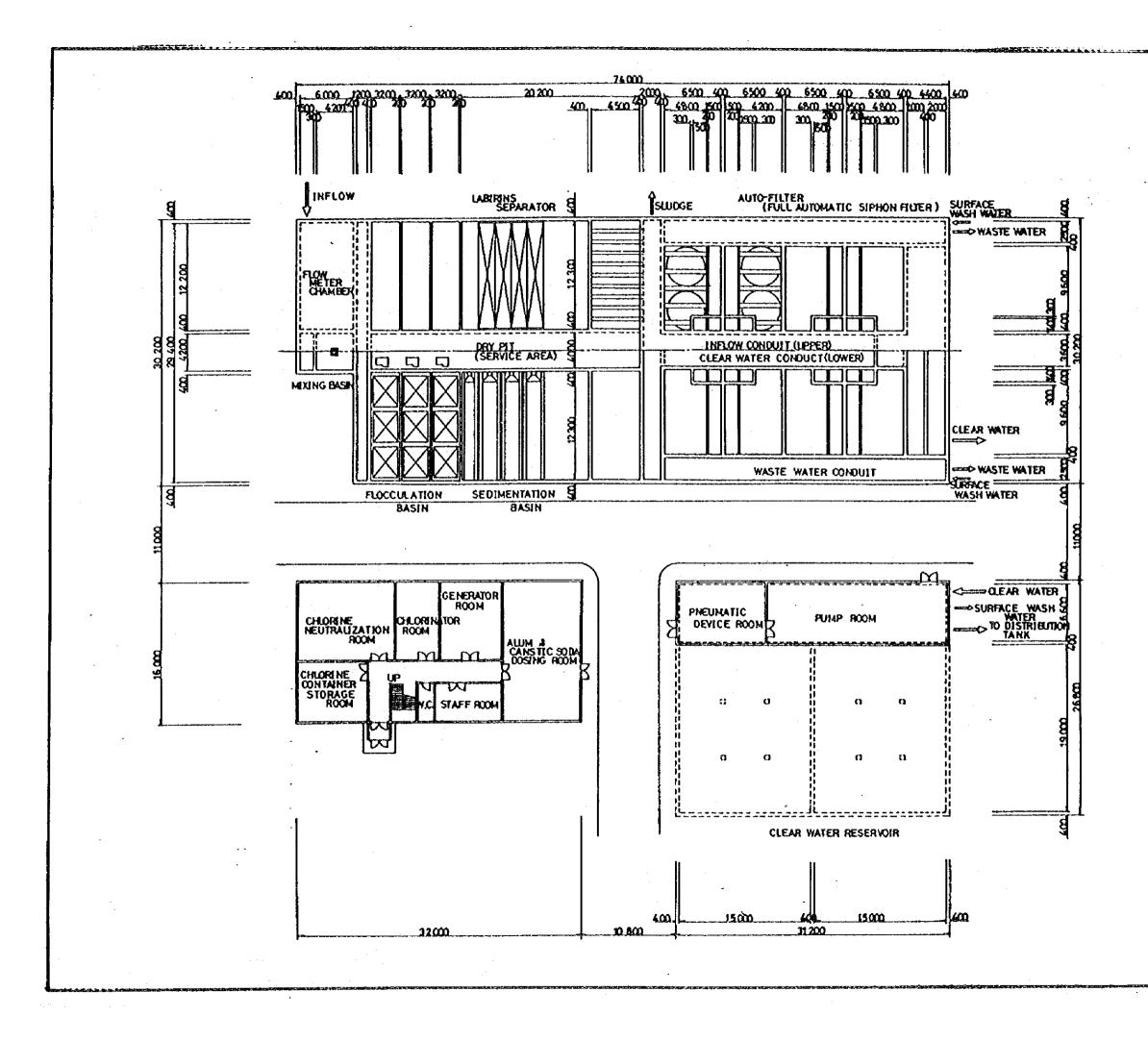
- GROUP OF SHOPS
- (3) MOSQUE
- TECHNICAL LABORERS HOUSE
- S APARTMENT
- 6 OWNERS' HOUSE
- FARMERS' HOUSE



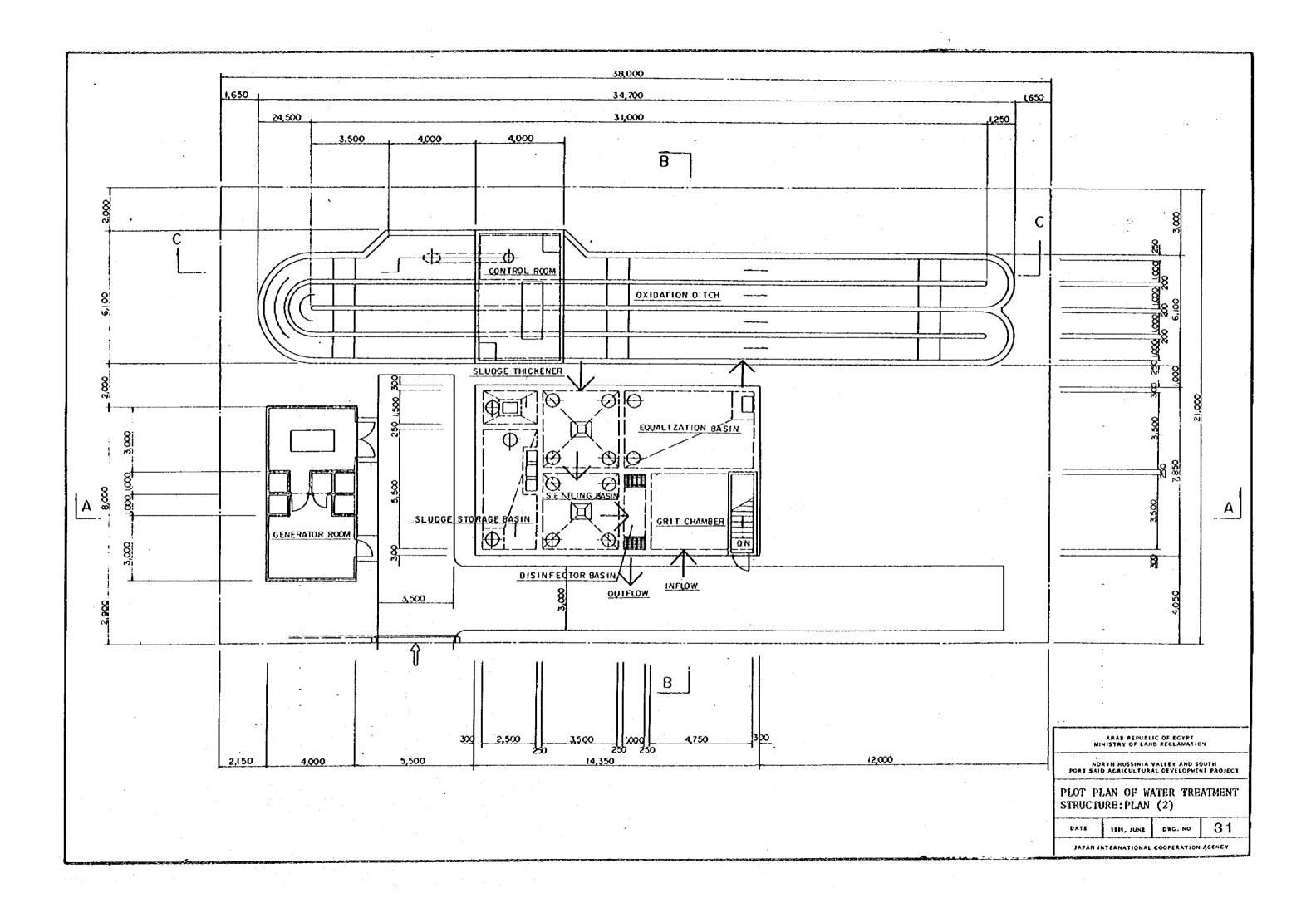
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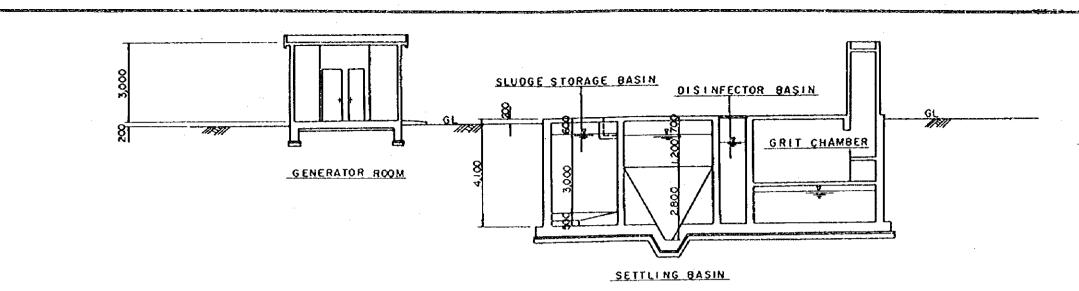
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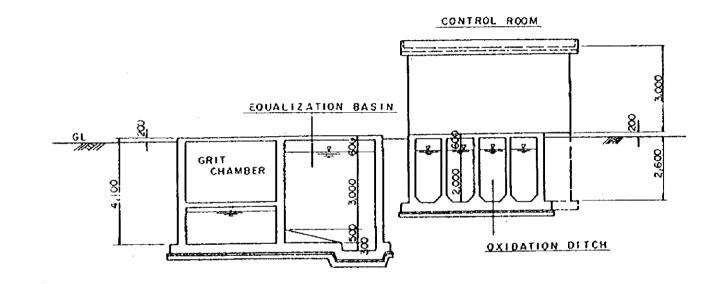
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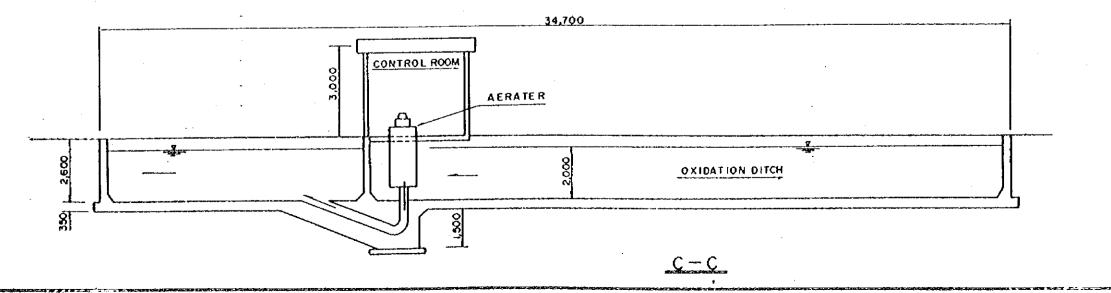


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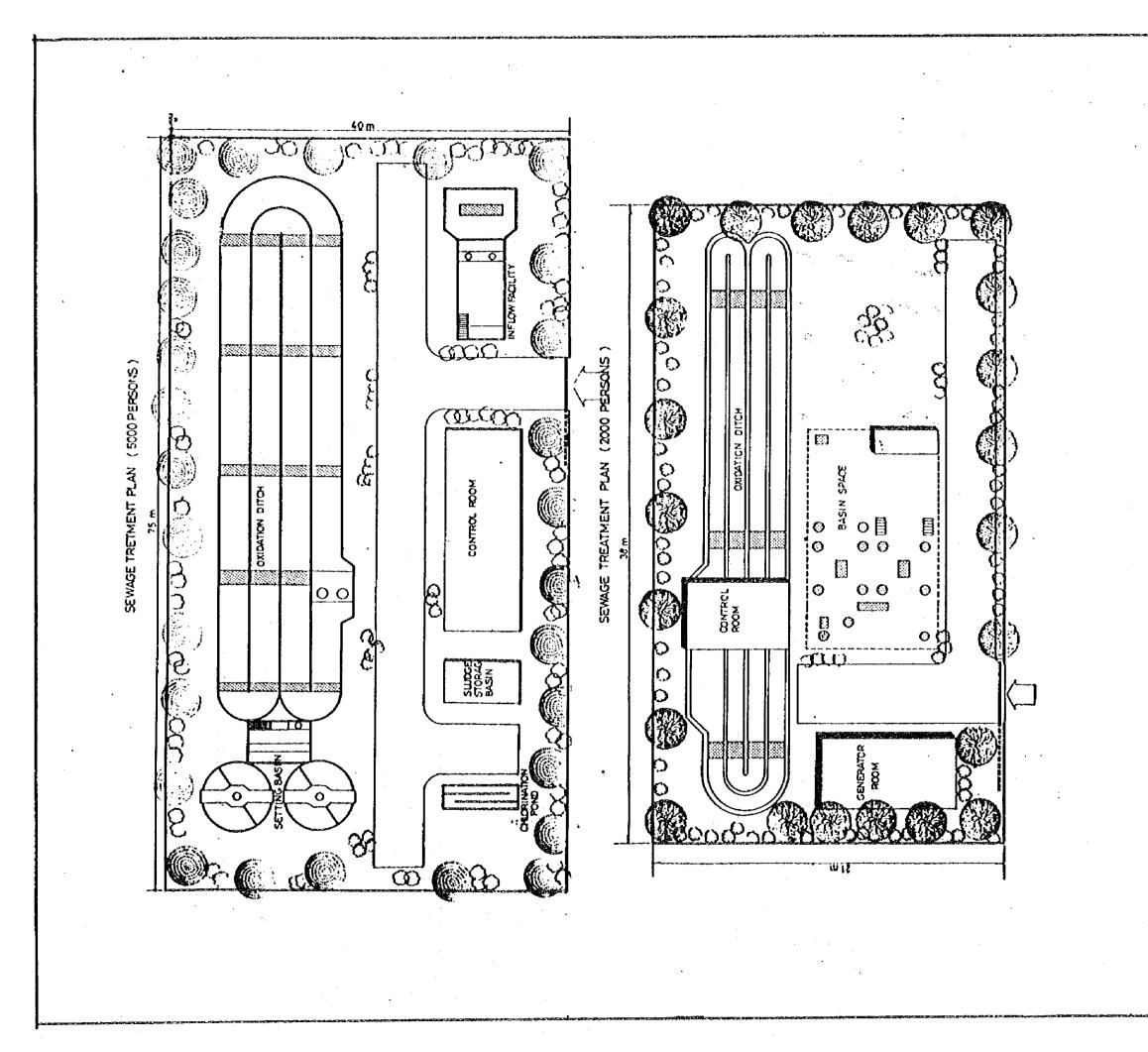
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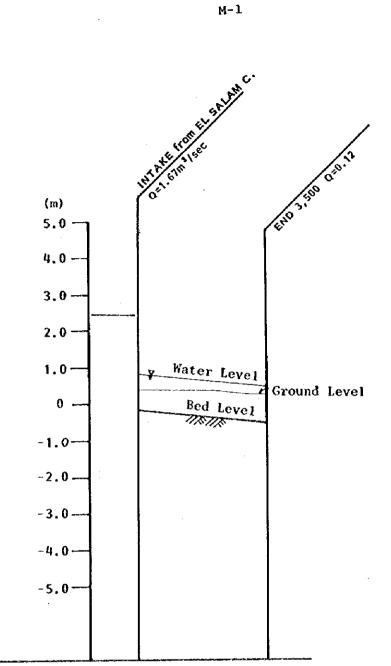
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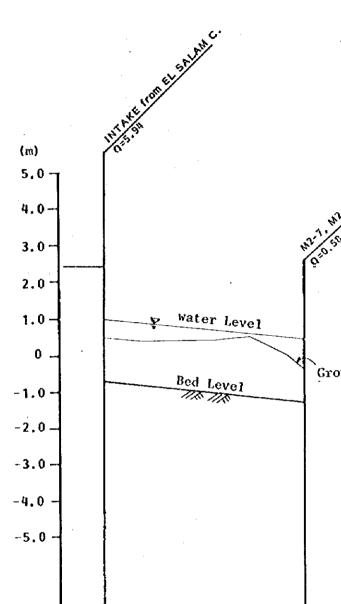
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1	ARAB REPUBLIC OF EGYPT	Í
	MINISTRY OF LAND RECLAMATION	
	NORTH HUSSINIA VALLEY AND BOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT	ł
		-
	SEWAGE TREATMENT PLAN	
	DATE INEL JUNE DRG. NO 33	
-	JAPAN INTERNATIONAL COOPERATION ACENCY	
	and an	J



GRADIENT	I=1/ Q=0.99	10,000 B=2.00
BOTTOM ELEVATION OF CANAL (m)	-0.15	-0.35
GROUND LEVEL (m)		0.3
STATION NO.(m)	0 000° r	2,000 3,000 3,500

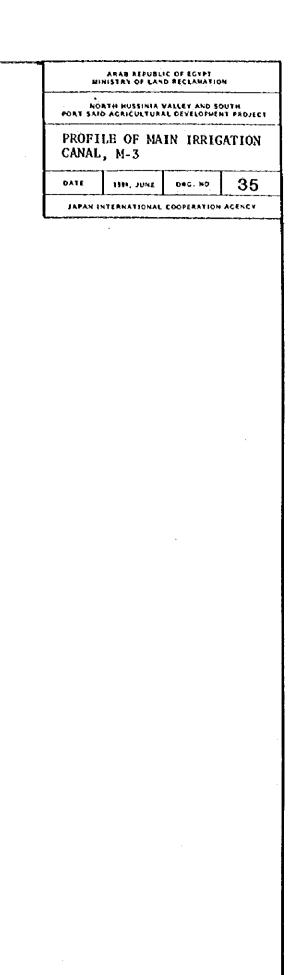


	h		I=1	/10,0	000	1
GRADIENT	Q=:	3.78			B=	3.00
BOTTOM ELEVATION OF CANAL (m)))))		L			-1.25
GROUND LEVEL (m)	0.5	# .0	# 0	т. 0	0.5	0.0
STATION NO. (m)	0	1,000	2,000	3,000	4,000	5,000

M-2

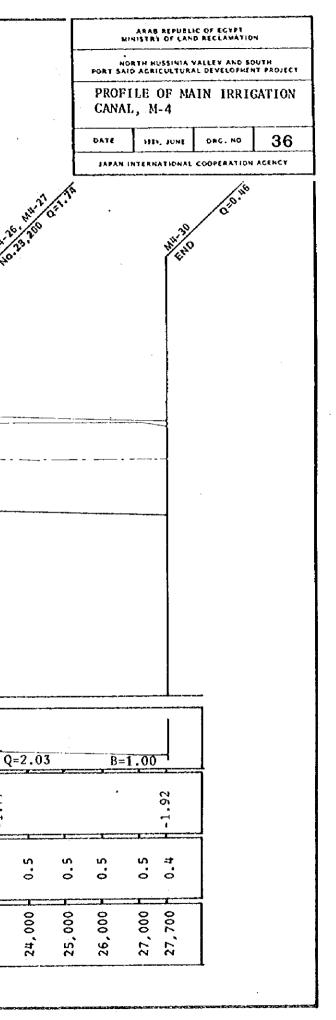
ARAB REPUBLIC OF EGYPT MINISTRY OF LAND RECLAMATION NORTH HUSSINIA VALLEY AND SOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT PROFILE OF MAIN IRRIGATION CANAL, M-1, M-2 34 DATE 1894, JUNE DHC. NO JAPAN INTERNATIONAL COOPERATION AGENCY H0-5-500 (EHD) Ground Level . •

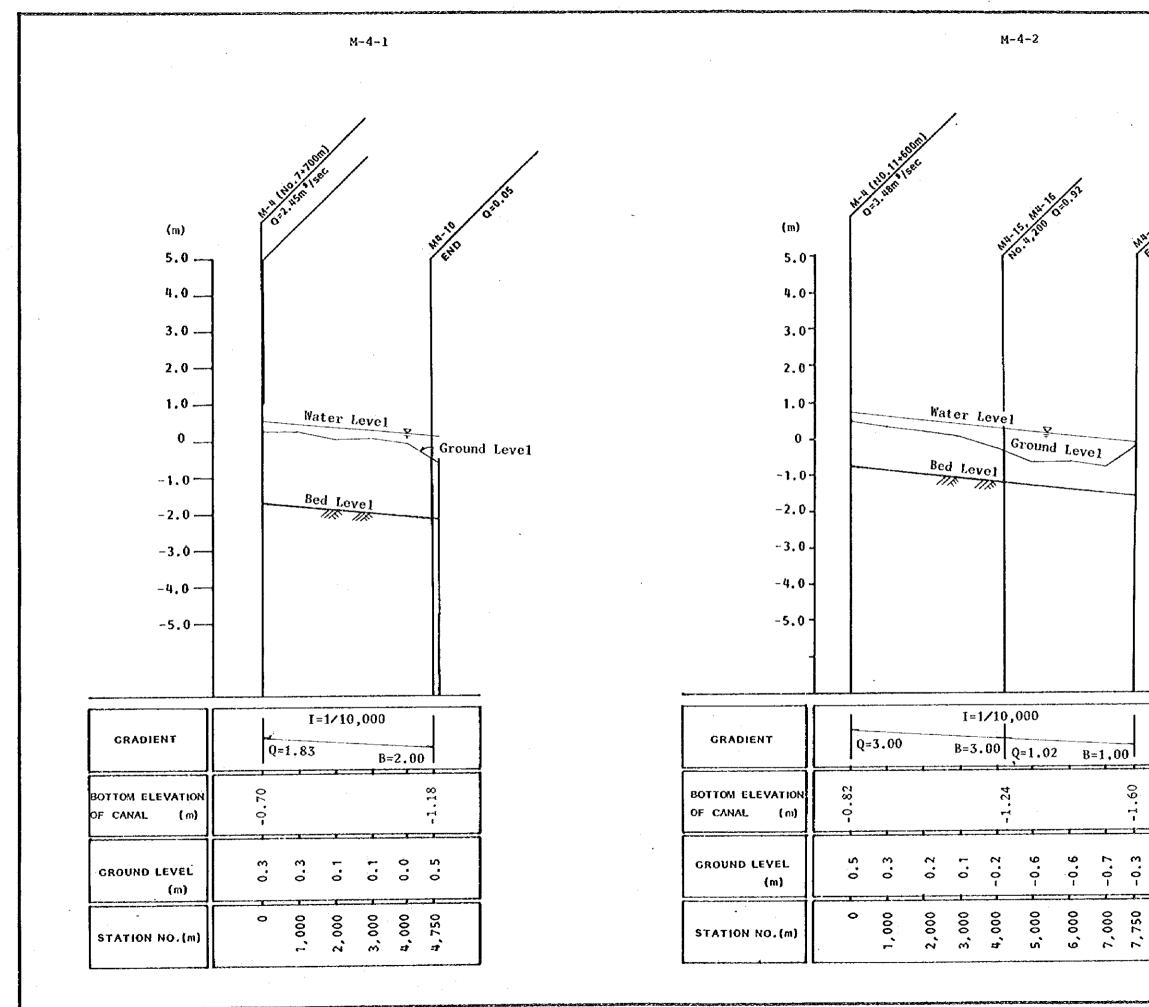
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GRADIENT	Q=10.46	B=9.00 Q=8.09 B=7	I=1/10,000 .00 Q=5.15 B	=4.00 Q=3.13 B=2	Q=0.86 .00 B=1.00
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GROUND LEVEL (m)	0.3	0.2 0.0	-0.3 -0.3		



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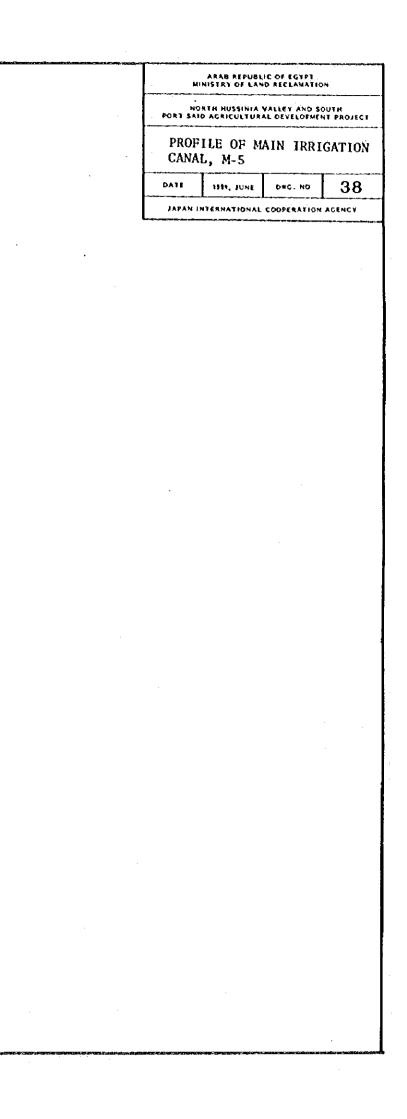
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BOTTOM ELEVATION OF CANAL (n)	-1.00	<u> </u>		4					-1.26				-1.39						-1.61					-1.77	
GROUND LEVEL	0 . t	0.4	0.4	0.5	0.5	0.6	0.5	0.5 0	0.5	0.5	0.5	0.5	0.6	е. О	ಸ ಂ	0 ⁻²	0.5	0.5	0.3	0.5	0.5	0.6	0.5	0.5	
	[1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000	13,000	14,000	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23, 000	



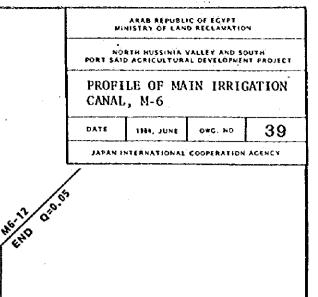


ARAB REPUBLIC OF EGYPT MINISTRY OF LAND RECLAMATION NORTH HUSSINIA VALLEY AND SOUTH PORT SAID AGRICULTURAL DEVELOFMENT PROJECT PROFILE OF MAIN IRRIGATION CANAL, M-4-1, M-4-2 DATE 1984, JUNE DWG. NO 37 SAPAN INTERNATIONAL COOPERATION ACENCY -1.60 ŝ oʻ

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GRADIENT	·		_				I=1/4	40,000)			ł				1	
	Q=9	9.25 B=9.5	Q=7.	96		B	=8.00	Q=5.2	5		B=4	.50	Q=2.0	55	B=2	2.00	
BOTTOM ELEVATION OF CANAL (m)	-1.32		-1.58				י י י					א ע ו			10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	-1.73	
GROUND LEVEL (m)	0.5	8 8 0 0	0.6	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.5	
STATION NO. (m)	0	1,000	3,000	t, 000	5,000	6,000	7,000	8,000	000,6	10,000	11,000	12,000	13,000	14,000	15,000	16,000 16,300	

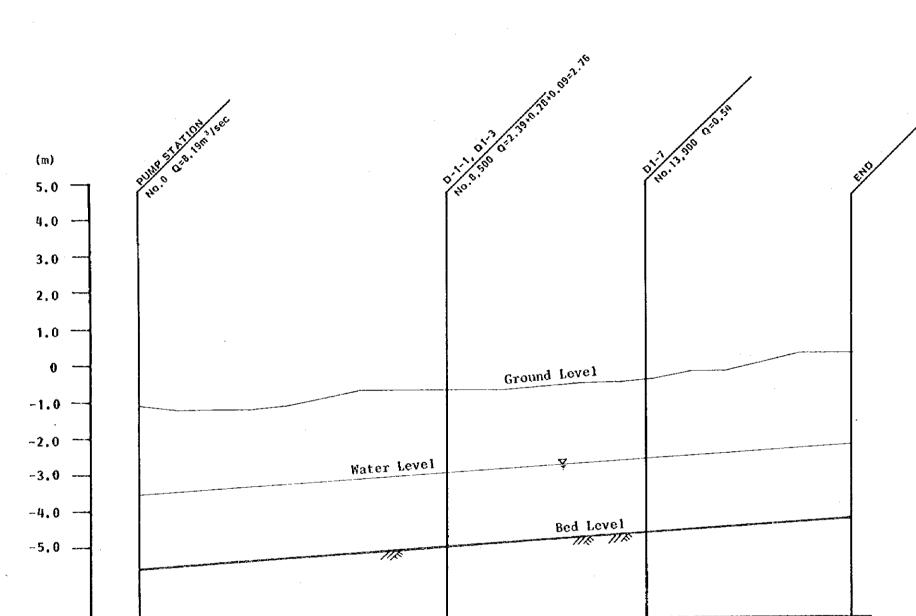


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GRADIENT		Q=10	.63		B=	11.00	Q=	-7.40			B=7.	50 Q	=4,26 B=	3.50	Q=2.	90		B=2.0	00 Q=	1.63	·			B=	=1.00	
BOTTOM ELEVATION OF CANAL (m)		> {	<u>y</u>				-1.13					-1.35			-1-47	r			.1.52							, ,
GROUND LEVEL (m)	4 C			4.0	オ 0	0.4	4.0	ਸ 0	4.0	ъ. 0	7. 0	0.5	0 2	0.5	0.5	9 0	0.6	0.8	0 8	+ 0	0.4 0	0.4	7.0	0.5	5 5 0 0 0 0	
STATION NO.(m)		2	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000	13,000	14,000	15,000	16,000	17,000	18,000	19,000	20,000	21,000	22,000	23,000 23,400)) ()) ()



Ground Level

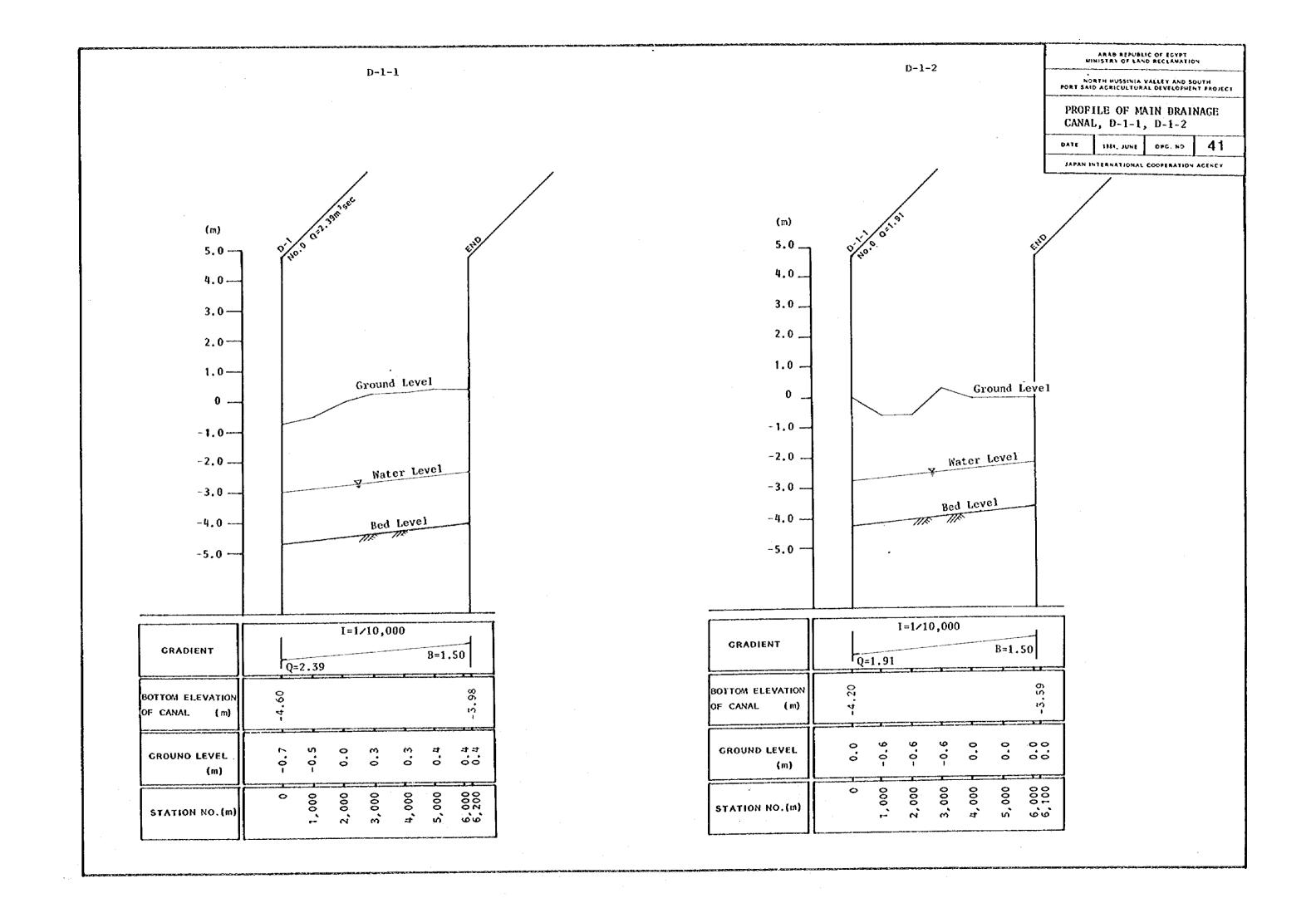
			<u></u>																	
GRADIENT	ŀ	2=8.19						B=	8.00		=1/15 54	,000		B=4.0	0 Q=	2.89			B=	2.00
BOTTOM ELEVATION OF CANAL (m)	-5.50						I	t	-4.93						-4.57					-4.20
GROUND LEVEL	- - - - - -	-1.2	-1.2	-1.2		6 0-	-0.7	-0.7	-0.7	-0.7	-0-1	-0.6	-0.5	-0.5	- 0.	- 0.2	-0.2	0.0	0.3	0.3
STATION NO.(m)	L 0	1,000	2,000	3,000	000 "#	5,000	6,000	7,000	8,000	000 6	10,000	11,000	12,000	13,000	14,000	15,000	16,000	17,000	18,000	19,000 19,500
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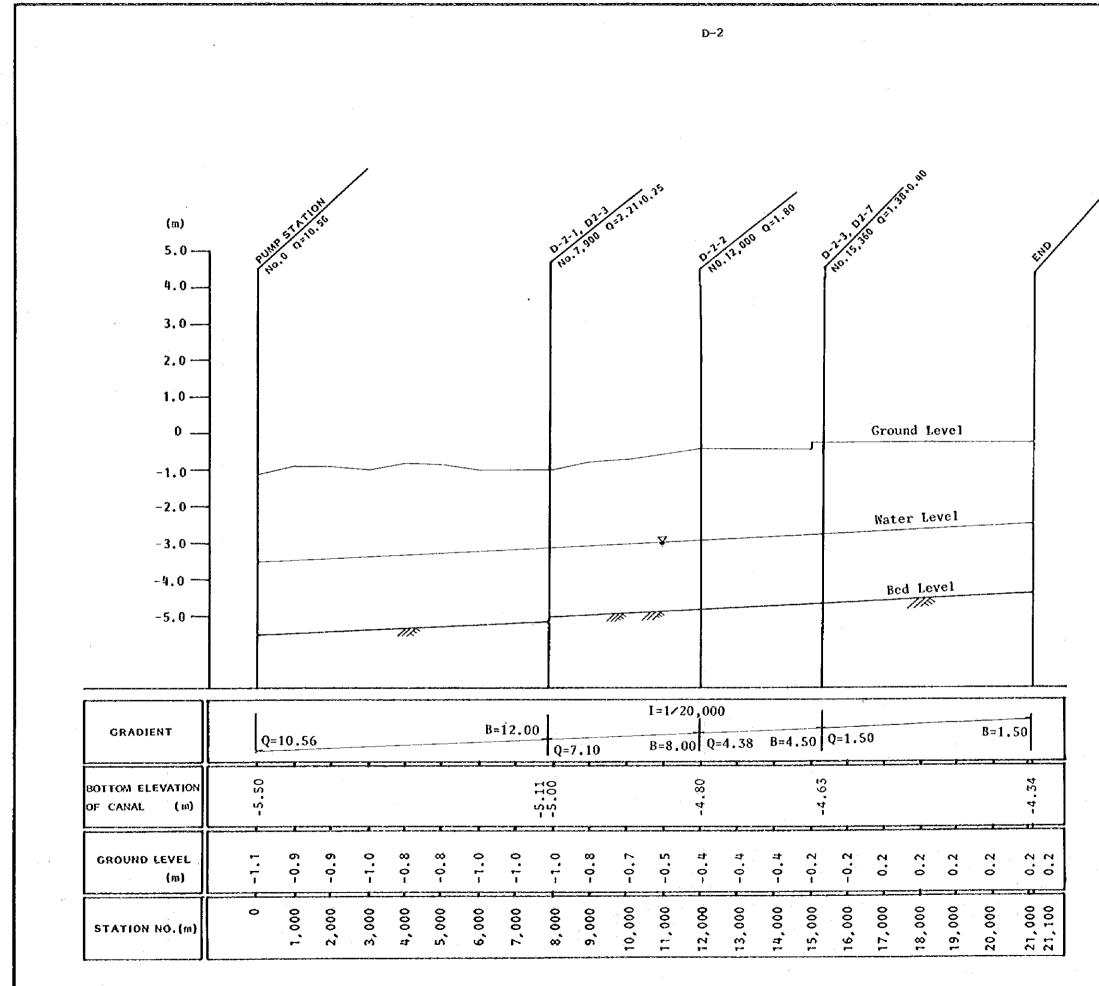


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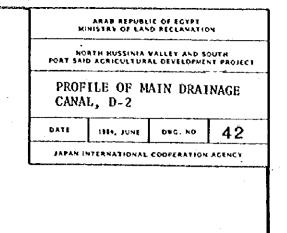
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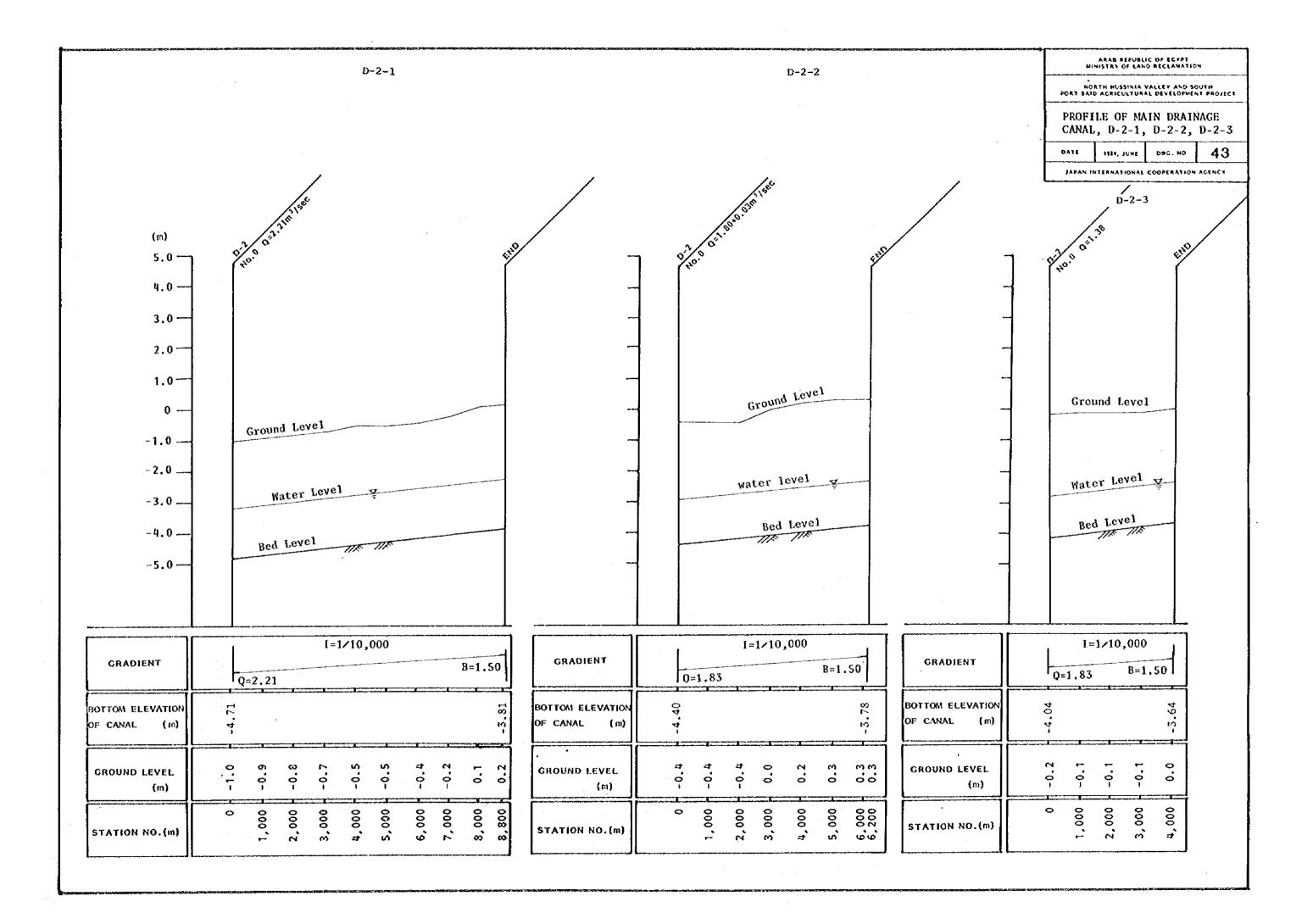
ARAB REPUBLIC OF EGYPT MINISTRY OF LAND RECLAMATION NORTH HUSSINIA VALLEY AND SOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT PROFILE OF MAIN DRAINAGE CANAL, D-1 40 DATE 1984, JUNE DWG. ND JAPAN INTERNATIONAL COOPERATION AGENCY



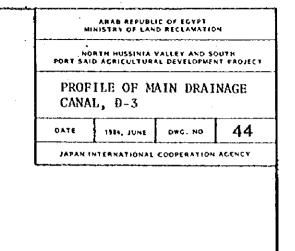


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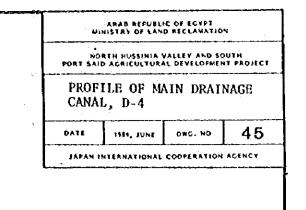




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(m) 5.0	PUMP 51 AT 10 H 188 40.12 No.0 07.17 10 188 40.12 No.0 070.11 No.0 070.11 No.0 070.11 No.0 070.11
4.0	
2.0	Ground Level
-1.0	
-3.0	Water Level
-5.0	Bed Level 11/8 11/8
GRADIENT	$I = 1/20,000 \qquad I = 1/20,000 Q = 3.27 \qquad B = 3.00 \qquad Q = 1.33 \qquad B = 1.50$
BOTTOM ELEVATION OF CANAL (m)	- 5 5 5 - 4 5 - 10
GROUND LEVEL (m)	
STATION NO.(m)	1,000 1,000 2,000 3,000 4,000 5,000 10,000 11,000 11,000 12,200

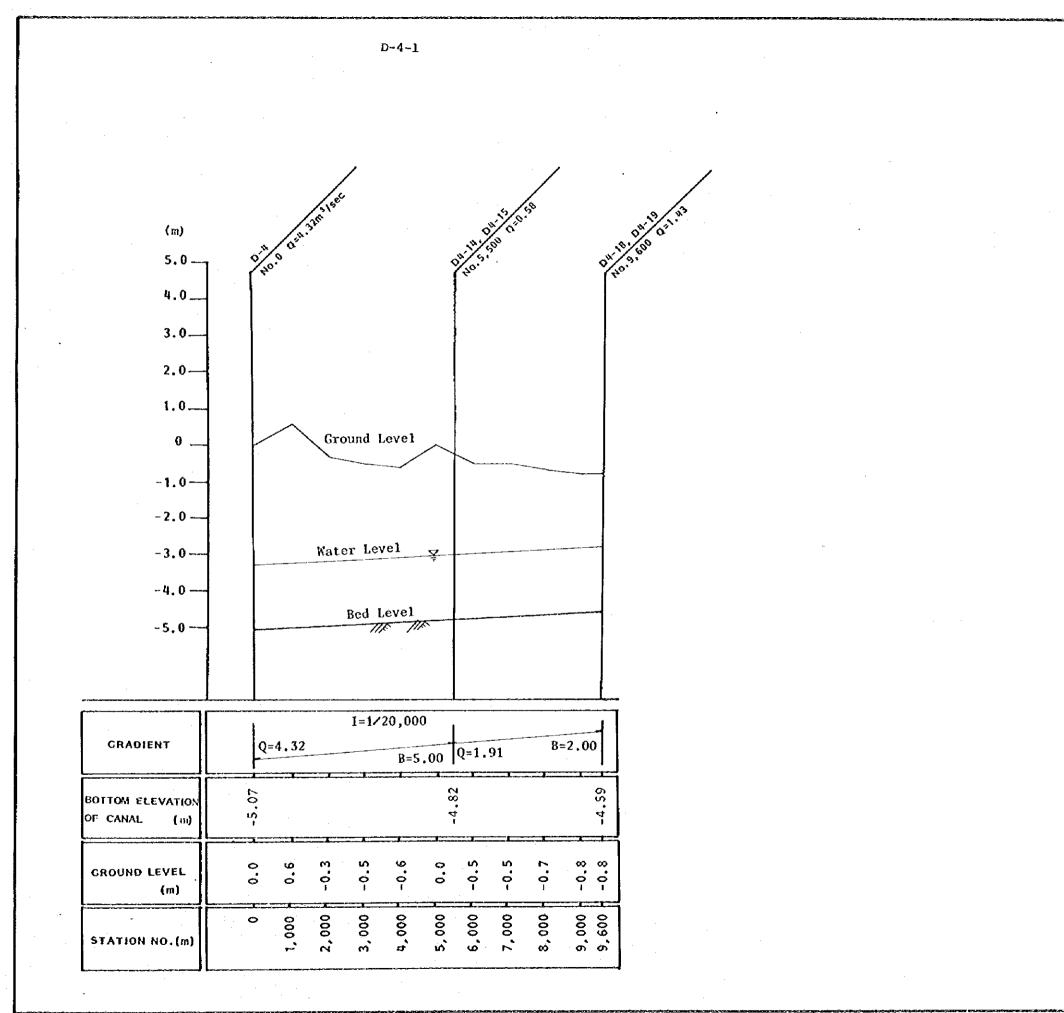


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	$p_{\mu\nu} = 5^{+1} + 1$
(m)	$p_{\mu 0} = 5^{(h_1)} p_{\mu 0} + 5^{(h_1)} p_{\mu$
5.0	
4.0	
3.0	
2.0	
1.0 —	Ground Level
0	
-1.0	
-2.0	
- 3.0	Water Level y
-4.0	Bed Level
-5.0	
	$I = 1/20,000 \qquad I = 1/10,000 \qquad I = $
GRADIEŇT	Q=13.00 B=15.00 Q=6.97 Q=5.16 Q=3.40 B=2.50 Q=1.72 B=1.50
BOTTOM ELEVATION OF CANAL (m)	-5.50 -5.50 -5.50 -5.15 -5.15 -4.90 -4.20 -4.20 -4.20 -3.73
GROUND LEVEL (m)	6 9 7 7 7 7 0 7 7 7 7 7 8 N N 7 7 7 7 7 7 7 7 7 7 7 7
STATION NO. (m)	0 1,000 2,000 3,000 4,000 6,000 6,000 11,0000 11,0000 11,000 11,000 11,000 11,000 11,000



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ARAB REPUBLIC OF EGYPT MINISTRY OF LAND RECLAMATION NORTH HUSSINIA VALLEY AND SOUTH PORT SAID AGRICULTURAL DEVELOPMENT PROJECT PROFILE OF MAIN DRAINAGE CANAL, D-4-1 DATE 46 1301, JUNE D#C. NO JAPAN INTERNATIONAL COOPERATION AGENCY

